CASSETTE RECEIVER

KRC-501/551

SERVICE MANUAL

KENWOOD

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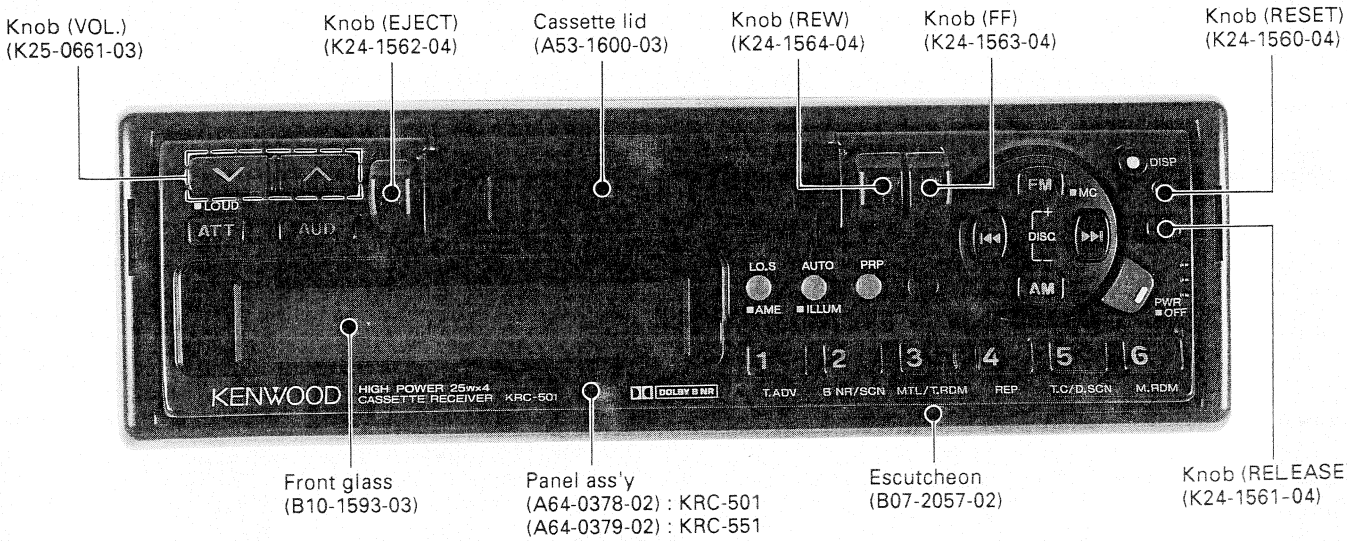
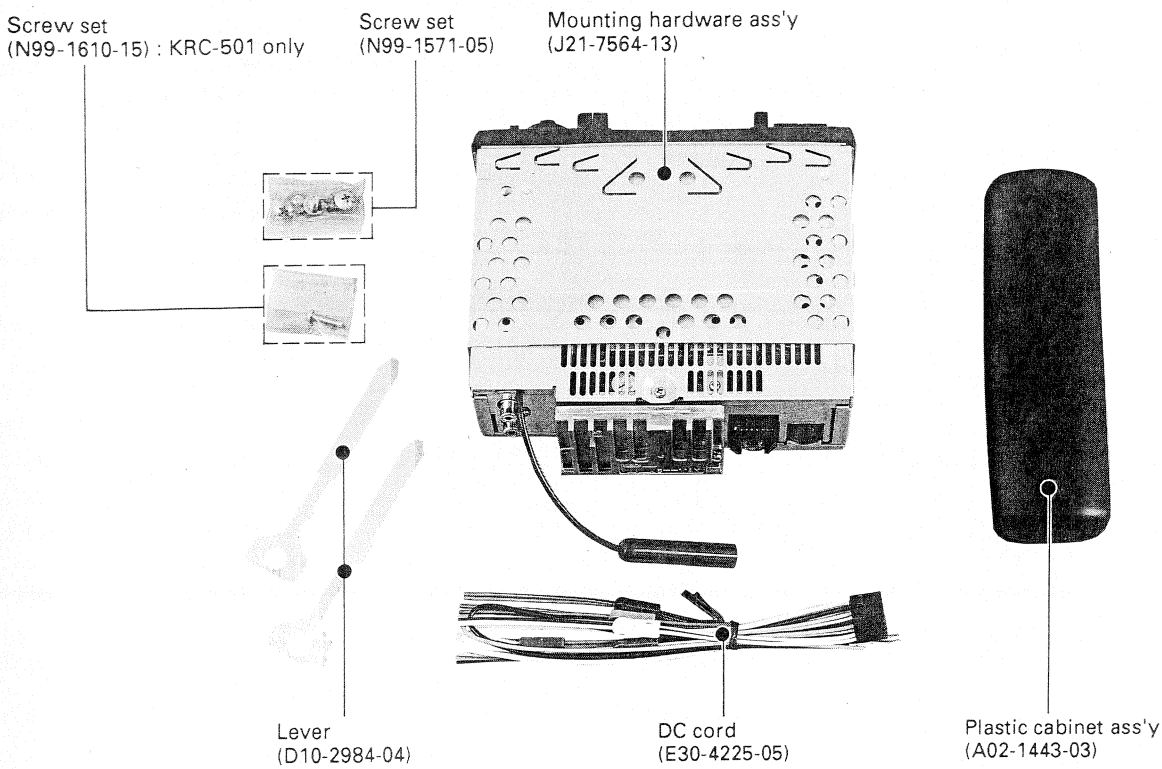
Photo is KRC-501





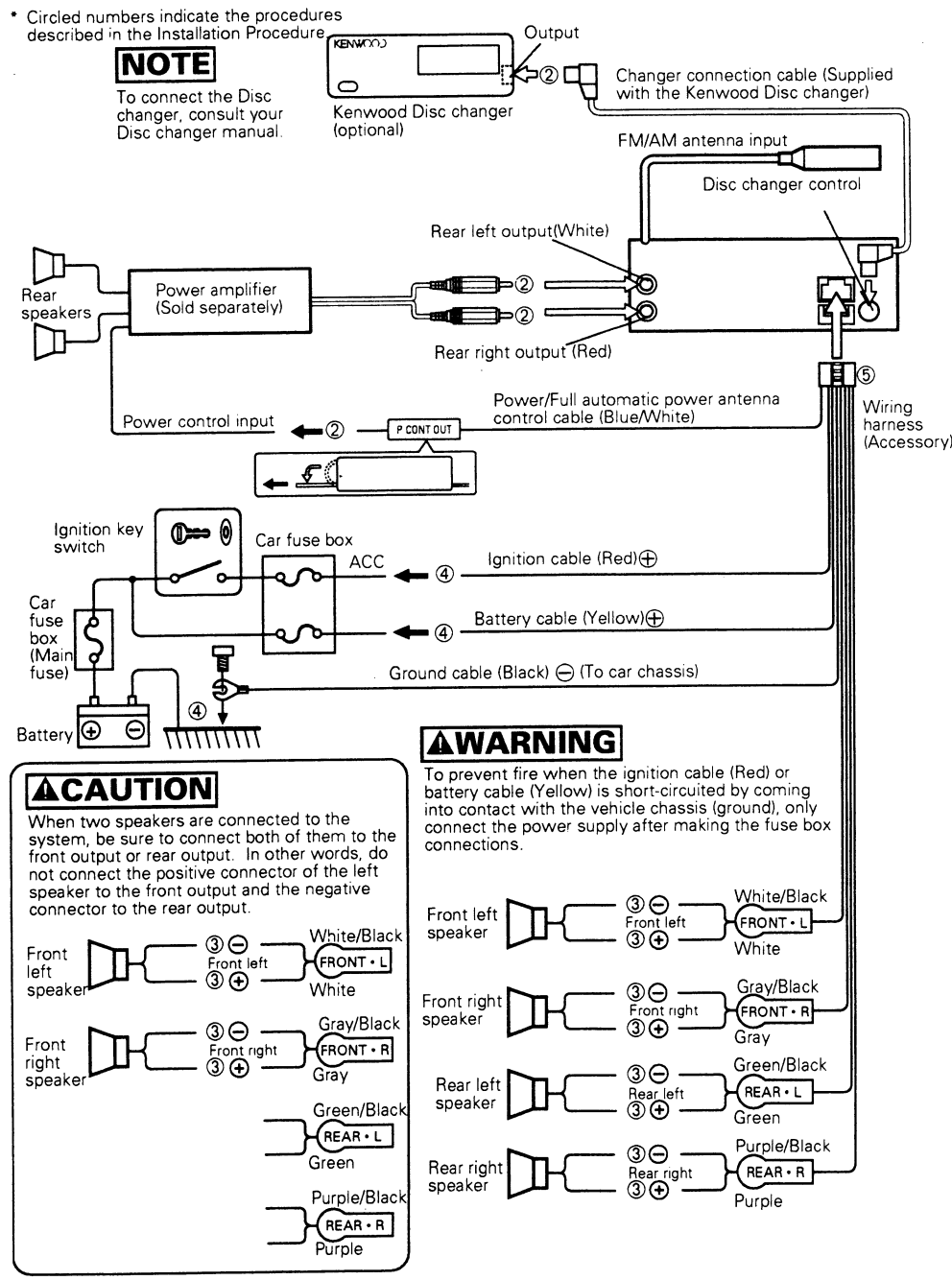
KRC-501/551

CONTENTS / CONNECTIONS

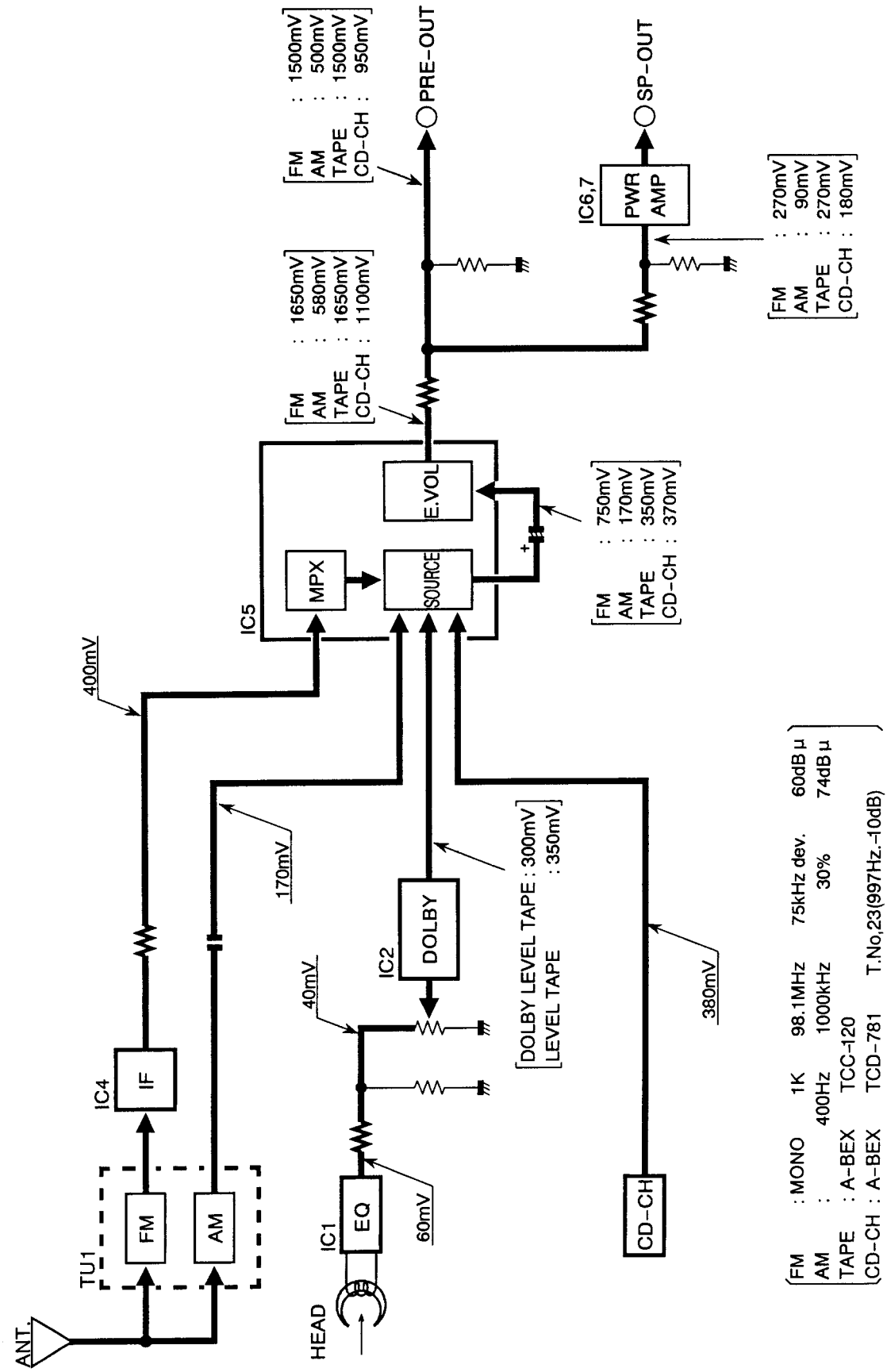
CONTENTS

CONNECTIONS 2
BLOCK DIAGRAM 3
CIRCUIT DESCRIPTION 4
DISASSEMBLY FOR REPAIR (MECHANISM) 10
MECHANISM OPERATION DESCRIPTION 11
ADJUSTMENT 20
PC BOARD (COMPONENT SIDE VIEW) 23
PC BOARD (FOIL SIDE VIEW) 25
SCHEMATIC DIAGRAM 27
EXPLODED VIEW (MECHANISM) 35
EXPLODED VIEW (UNIT) 36
PARTS LIST 38
SPECIFICATIONS ..... BACK COVER

CONNECTIONS



BLOCK DIAGRAM



CIRCUIT DESCRIPTION

Description of components

SYNTHESIZER UNIT (X14-523X-XX) 0-10 : KRC-501 0-21 : KRC-551

Component	Component Name	Application/Functions	Operation/Condition/Compatibility
IC1	BA328F	TAPE EQ AMP	
IC4	LA1143B	FM IF AMP	FM IF signal amplification.
IC5	TDA7340P	E.VOL / NC MPX	FM NC MPX source selector ISO AMP.
IC6, 7	AN7190K	Power AMP	IC6[Rear], IC7[Front]
IC8	BA3906-V4	SYS-AVR IC	
IC9	LC72329-8923	Microcomputer	LCD driver various control.
Q3, 4	DTC143TK	EQ-MUTE SW	
Q5	DTC144EK	FM LOCAL SW	
Q7	DTC144EK	AFC SW	OFF during seek. ON during reception.
Q8	DTC144EK	Band MUTE SW	
Q9	2SC2412K	FM S meter buffer	
Q10	2SA1037K	CRSC SW	
Q11	DTA144EK	CRSC ON/OFF SW	
Q12	2SC2412K	CRSC control buffer	
Q14	2SC2412K	ACC detection SW	
Q15	2SC2412K	Surge detection SW	
Q16	2SC2412K	B.U detection SW	
Q17	2SB1277	P.CON output	
Q18	2SA1037K	P.CON SW	
Q19	DTA124EK		
Q20	2SC2412K		
Q21	DTA144EK	B.U detection SW	
Q22	DTA144EK	PANEL detection SW	
Q24	DTA144EK	B.U detection SW	
Q25	DTA144EK	AVR IC STBY SW	
Q26	DTC144EK		
Q27	2SB1184	Illumination AVR	
Q28	2SC2412K		
Q29	DTA124EK	Illumination AVR SW	
Q30	DTC144EK		
Q37	2SB1443	MOTOR +B SW	
Q38	DTC114EK		
Q39	2SA1036K	PANEL +5V SW	
Q41	2SA1037K	MUTE Driver	
Q42	DTC144EK	MUTE SW based on momentary power failure surge detection	
Q43	2SC2412K	DSI LED driver	
Q44	2SK536	PLL LPF	
Q46	DTA144EK	Power ON SW	
Q47	DTC144EK	CD-CH MUTE SW	
Q48	DTA144EK	CH-RST SW	
Q49	DTC144EK	HOLD ON SW	When CH-RST
Q51	DTC144EK	CRSC ON/OFF SW	
Q53-56	DTC143TK	MUTE SW	
Q57	DTA144EK	AM LOCAL SW	
Q58	DTC144EK		

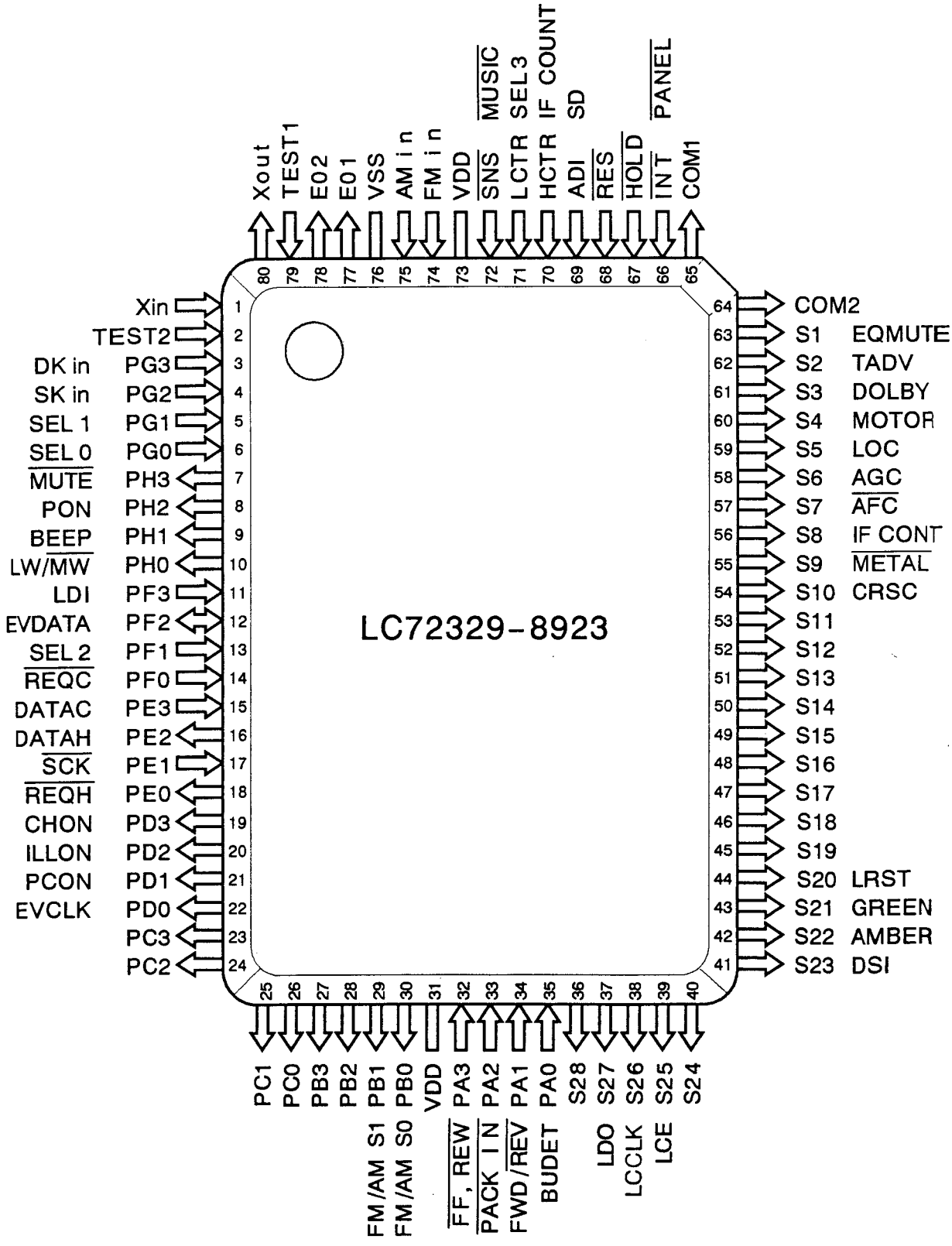
SWITCH UNIT (X25-7260-10)

IC1	LC75852E	LCD driver with key input	
Q1	DTC144EK	LCD driver ON SW	
Q2	DTA144EK		

CIRCUIT DESCRIPTION

Microprocessor IC9 : LC72329-8923 (X14-523X-XX) 0-10 : KRC-501 0-21 : KRC-551

Terminal connection



CIRCUIT DESCRIPTION

Terminal description

Pin.No	Name	I/O	Function	Description	During HOLD
3	PG3	I	DK in	DK signal input terminal.	-
4	PG2	I	SK in	SK signal input terminal.	-
5, 6	PG1, 0	I	SEL 1, 0	Destination select terminal.	-
7	PH3	O	MUTE	Audio muting control output. ON="L".	L(15s, then H)
8	PH2	O	PON	Peripheral circuit power control terminal.	1s, then L
9	PH1	O	BEEP	BEEP output.	L
10	PH0	O	LW/MW	AM Band LW/MW select.	L
11	PF3	I	LDI	LCD driver data input.	-
12	PF2	I/O	EVDATA	Electronic volume DATA input-output.	L
13	PF1	I	SEL 2	Destination select terminal.	-
14	PF0	I	REQC	Communication request from the CD-changer.	-
15	PE3	I	DATAC	Serial data input, Data input from the CD-changer.	-
16	PE2	O	DATAH	Serial data output, Data output to the CD-chanter.	L
17	PE1	I	SCK	Serial data input, Clock input from the CD-chanter.	L
18	PE0	O	REQH	Request HU, Communication request to the CD-changer.	L
19	PD3	O	CHON	Output when the CD-Changer is ON. ON="H". Also used as the audio swtching output.	L
20	PD2	O	ILLON	Illumination power control terminal.	L
21	PD1	O	PCON	Power control output.	L
22	PD0	O	EVCLK	Electronic volume CLK output.	L
23-26	PC3-0	O	(NC)	Not used. (L output)	L
27,28	PB3, 2	O	(NC)	Not used. (L output)	L
29,30	PB1, 0	O	FM/AM S1, S0	AM mode / FM mode / TAPE or CD-CH mode S1: H / L / H S0: H / L / L	L
31	Vdd	-	Vdd	5V.	
32	PA3	I	FF, REW	Tape fast winding detection input. "L"=During FF/REW.	-
33	PA2	I	PACK in	Tape detection input. "L"=Tape mode.	-
34	PA1	I	FWD/REV	Tape transport direction input. "H"=FWD, "L"=REV.	-
35	PA0	I	BUDET	Buck-Up detection. (Voltage failure detection)	-
36	S28	O	(NC)	Not used. (L output)	L
37	S27	O	LDO	LCD driver data output terminal.	L
38	S26	O	LCCLK	LCD driver CLK output terminal.	L
39	S25	O	LCE	LCD driver CE output terminal.	L
40	S24	O	(NC)	Not used. (L output)	L
41	S23	O	DSI	DSI ON/OFF output.	Blinking
42	S22	O	AMBER	AMBER illumination output.	L
43	S21	O	GREEN	GREEN illumination output.	L
44	S20	O	LRST	LCD driver reset output.	L
45-53	S19-11	O	(NC)	Not used. (L output)	L
54	S10	O	CRSC	CRSC ON/OFF output. ON="H".	L
55	S9	O	METAL	METAL output. METAL="L".	L
56	S8	O	IF CONT	IF COUNTER control.	L
57	S7	O	AFC	AFC control output. ON="L".	L
58	S6	O	AGC	AGC cut control output. ON="H".	L
59	S5	O	LOC	Local output. AM/FM logic inversion.	L
60	S4	O	MOTOR	Tape motor control.	L
61	S3	O	DOLBY	DOLBY output.	L
62	S2	O	TADV	T-ADV plunger output. "H"=ON.	L
63	S1	O	EQ-MUTE	Tape Equalizer Mute control output. ON="H".	L

CIRCUIT DESCRIPTION

Pin.No	Name	I/O	Function	Description	During HOLD
64,65	COM 2,1	O	COM 2, 1	LCD Common output.	L
66	$\overline{INT}$	I	$\overline{PANEL}$	Panel detection switch. Detected="L".	-
67	$\overline{HOLD}$	I	$\overline{HOLD}$	Power input.	Return at ∫
68	$\overline{RES}$	I	RESET	(Connected to Vdd)	
69	ADI	I	SD in	FM/AM station signal detection input. (Vth=0.75V) "H"=Station detected.	-
70	HCTR	I	IF COUNT	AM Band IF Counter.	
71	LCTR	I	SEL 3	Destination select terminal.	
72	$\overline{SNS}$	I	$\overline{MUSIC}$	Music detection in tape mode.	-
73	Vdd	-	Vdd	5V.	
74,75	FM,AM in	I	FM, AM in	VCO input .	
76	Vss	-	Vss	(Connected to GND)	
77,78	E01,2	O	E01, 2	Phase Detector Error output.	
79,2	TEST 1,2	I	-	(Connected to GND)	
80,1	X out, in	I/O	X out, in	4.5MHz X'tal oscillator.	

Key matrix

	KI1 (52)	KI2 (53)	KI3 (54)	KI4 (55)	KI5 (56)
KS6 (51)	-	-	-	-	SOURCE POWER
KS5 (50)	-	-	-	-	PANEL DETECTION
KS4 (49)	AM CDCH : D.DOWN	FM CRSC CD-CH : D.UP	UP	DOWN	CLOCK
KS3 (48)	AUDIO VOL RETURN	-	VOLUME ∧	VOLUME ∨	ATT LOUD
KS2 (47)	RADIO : 6 CDCH : M.RDM	LOCAL AUTO MEMORY	AUTO ILLUMI	-	PRP
KS1 (46)	RADIO : 1 TA : T-ADV	RADIO : 2 CDCH : SCAN	RADIO : 3 TA : METAL CDCH : RANDOM	RADIO : 5 TA : T-CALL CDCH : D.SCAN	RADIO : 4 CDCH : REPEAT

KRC-501/551

CIRCUIT DESCRIPTION

Audio signal processor IC5 : TDA7340P (X14-1523-10)

Audio processor

- Mute, soft mute and zero crossing mute.
- One differential, two stereo and two mono inputs.
- Differential phone input
- Volume, bass, treble and loudness control.
- Four speaker attenuators with independent attenuation control.

Stereo decoder

- Adjustment free integrated 456kHz VCO.
- High cut control.
- Stereo blend.

Noise blanker

- Integrated high-pass filter.
- Noise rectifier output for quality detection.
- Programmable trigger threshold.

Pause detector

- Programmable threshold.

All functions programmable via I²C bus.

Description

The TDA7340 I²C bus controlled audio signal processor contains all signal processing blocks of a high performance car radio, including audio processor, stereo decoder, noise blanker, pause detector and different mute functions.

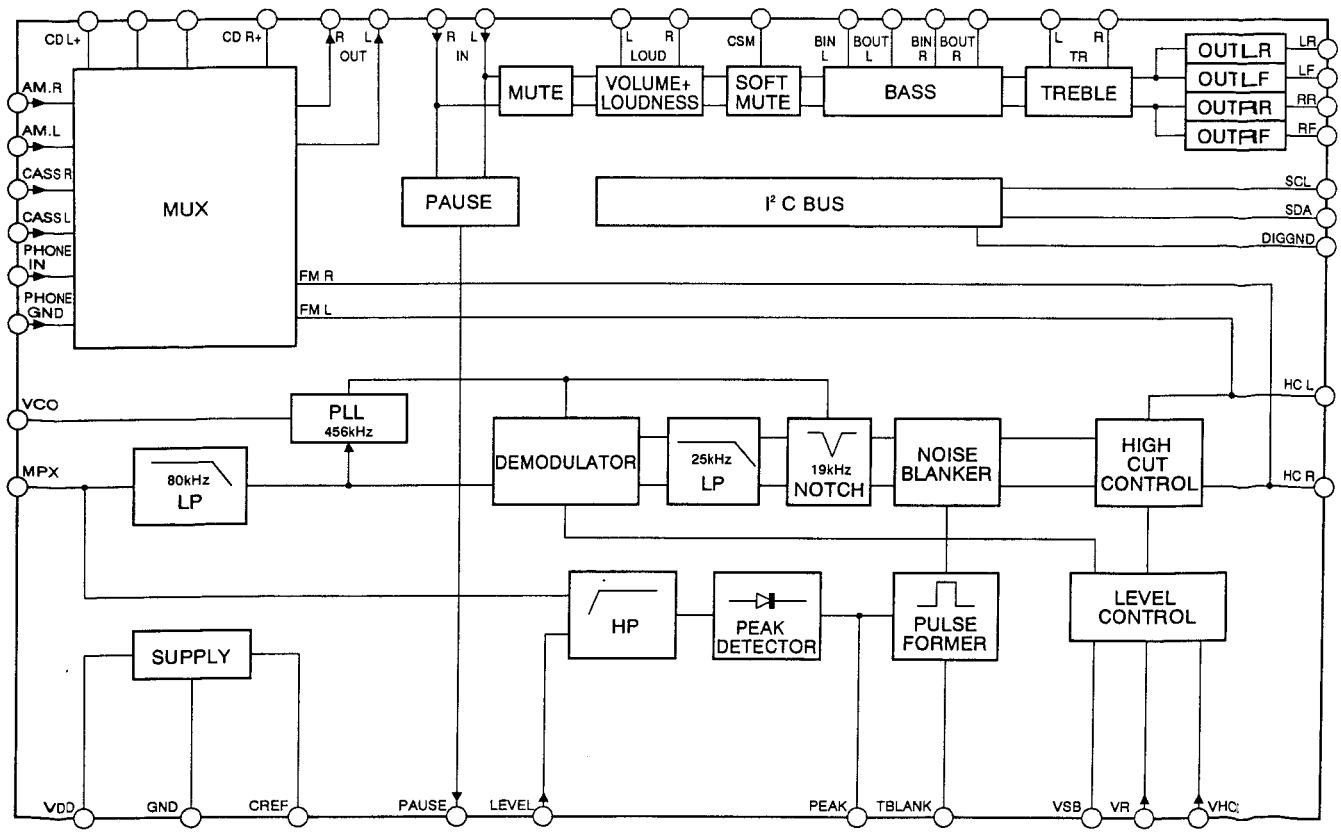
The use of BICMOS technology allows the implementation of several filter functions with switched capacitor techniques like fully integrated, adjustment free PLL loop filter, pilot detector with integrator and two 19kHz notch filters.

This minimizes the number of external components.

Due to a highly linear signal processing, using CMOS-switching techniques instead of standard bipolar multipliers, very low distortion and very low noise are obtained also in the stereo decoder part. The audio processor contains several new features like soft mute, zero-crossing mute and pause detector.

Very low Dc stepping is obtained by use of a BICMOS technology.

Block diagram



CIRCUIT DESCRIPTION

Audio processor part

Features :

Input multiplexer

- Differential CD stereo input.
- Cassette stereo input.
- FM Stereo input from stereo decoder.
- AM input
  Mono or stereo mode (Programmable)
- Beep input (Only in AM mono mode)
- Telephone differential mono input
- Gain programmable in 3 x 3.75dB steps.

Loudness

- Fully programmable.
- 15 x 1.25dB steps.

Volume control

- 1.25dB coarse attenuator.
- 0.31dB fine attenuators.
- Max gain 20dB.
- Max attenuation 59.69dB (Plus loudness).

Bass control

- ±7 x 2dB steps.
- 2nd order symmetrical or non symmetrical frequency response (Programmable).

Treble control

- ±7 x 2dB steps.

Speaker control

- 4 independent speaker control in 1.25dB steps
- Control range 37.5dB.
- Independent speaker mute.

Mute functions

- Direct mute.
- Zero crossing mute with programmable threshold.
- Soft mute with external defined slope.

Pause detector

- Programmable threshold.
- Delay time defined by an external capacitor.

Stereo decoder part

Features :

- Integrated 19kHz notch filter for pilot cancellation.
- On chip filter for pilot detector and PLL.
- Adjustment free voltage control LED oscillator.
- Automatic pilot dependent mono/stereo switching.
- Very high inter modulation and inter reference suppression.
- I^2C bus controlled (STD off, forced mono, stereo).
- High cut control.
- Stereo blend.

Noise blanker part

Features :

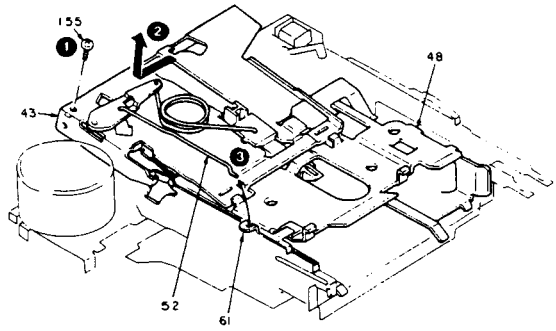
- Internal 2nd order high-pass filter.
- Noise rectifier output for signal quality detection.
- Programmable trigger threshold.
- Trigger threshold dependent on high frequency noise.
- Blanking time programmable by external capacitor.
- Very low offset current during hold time due to OPAMPS with MOS inputs.
- Level input for additional spike detection on field strength.

KRC-501/551

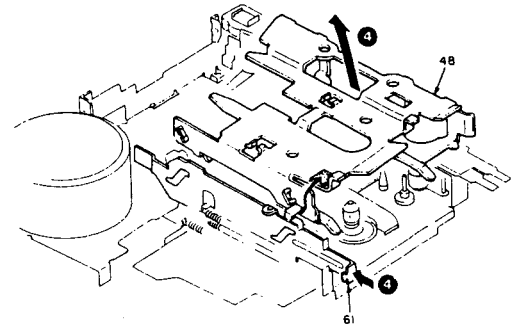
DISASSEMBLY FOR REPAIR (MECHANISM)

REMOVAL

1. Remove screw (155) (❶).
2. Rotate the lifter (43) to the left and lift it up to remove (❷).
3. Remove the rod (52) from the eject lever (61) (❸).

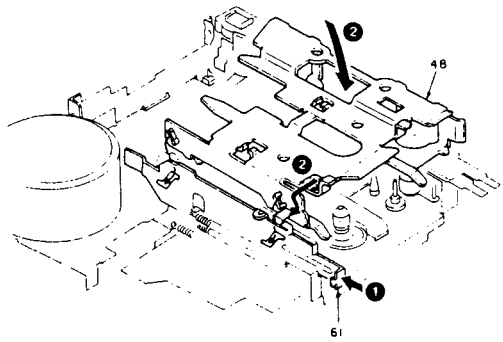


4. While pressing in on the eject lever (61), remove the holder (48) (❹).

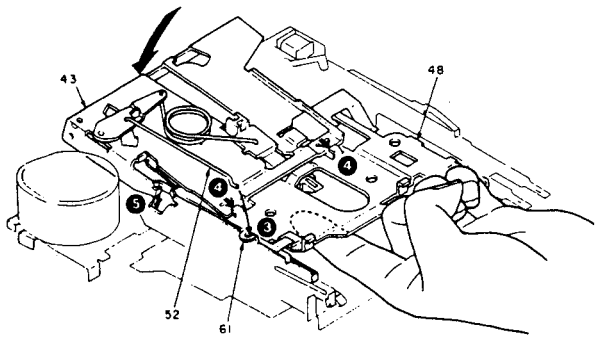


SET UP

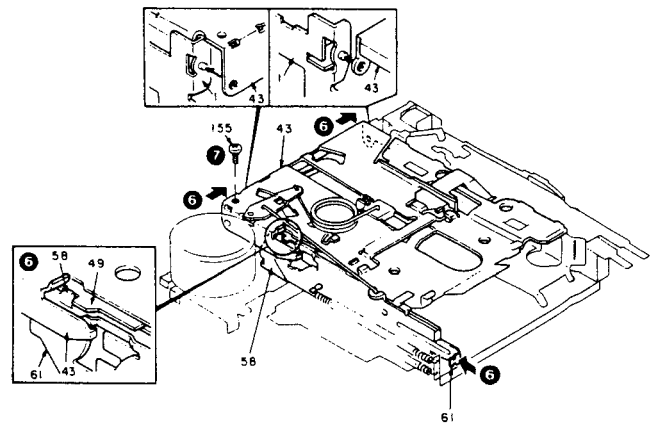
1. While pressing in on the eject lever (61), attach the holder (48) (❶).
2. Insert the holder's (48) projecting tab into the push plate's groove (❷).



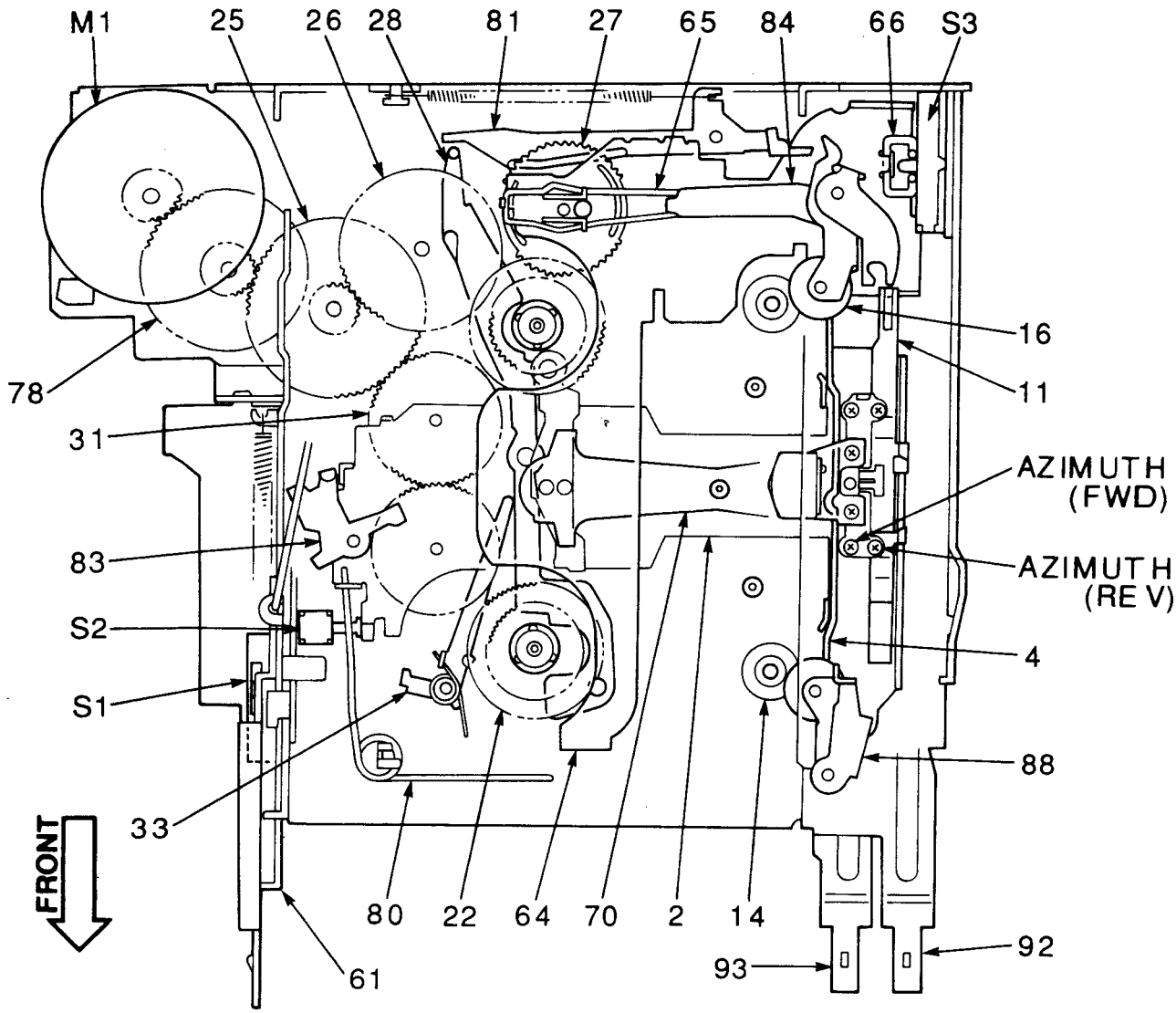
3. Insert the rod (52) into the hole in the eject lever (61) (❸).
4. While lifting up the holder (48), engage the lifter (43) (❹).
5. Move the lifter (43) down so that it aligns with the eject lever's (61) cut out (❺) section.



6. Align the lifter (43) with the chassis (1) projections and move it to the right to engage (see diagram) (❻).
7. Secure the assembly by attaching the screw (❼).



MECHANISM OPERATION DESCRIPTION



KRC-501/551

MECHANISM OPERATION DESCRIPTION

LOADING

1. Insert a cassette tape (❶).

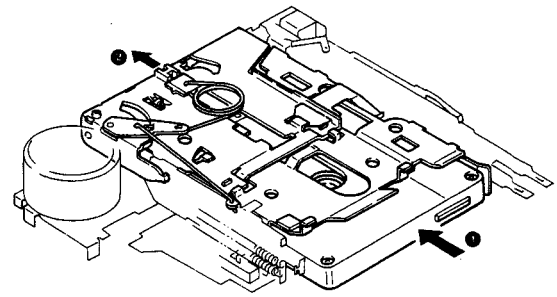


Fig. 1

2. The pack slider (50) presses the lever (49) (❷).
3. The lever (49) rotates and the push plate (58) lock releases. The push plate is pulled by spring (59) and moves forward (❸).

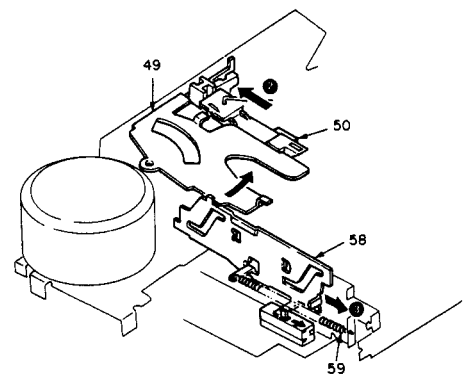


Fig. 2

4. The holder (48) lowers following the groove in the push plate (58) (❹).
5. The slide switch (S1) is pressed by the push plate (58) and turns ON. When S1 turns ON, current is supplied to the motor (M1) (❺).

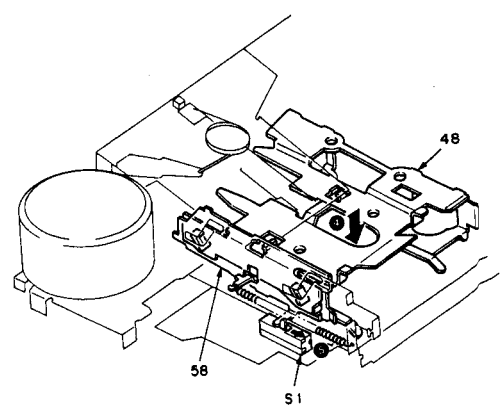


Fig. 3

MECHANISM OPERATION DESCRIPTION

6. The push arm (83) is pressed by the push plate (58) and rotates. The push arm (83) releases the head plate (2) lock (❻).
7. The head plate (2) is pulled forward by the spring (80) (❼).

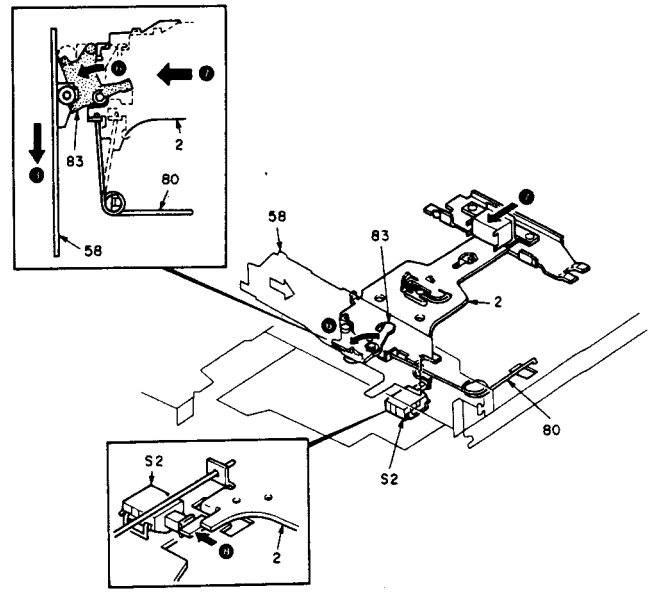


Fig. 4

8. The forward movement of the head plate (2) causes the push switch (S2) to turn ON (❽).
9. Through the forward movement of the head plate (2), the PR spring (4) causes the pinch roller assembly (16, 17) to press against the capstan assembly (74) (❾).

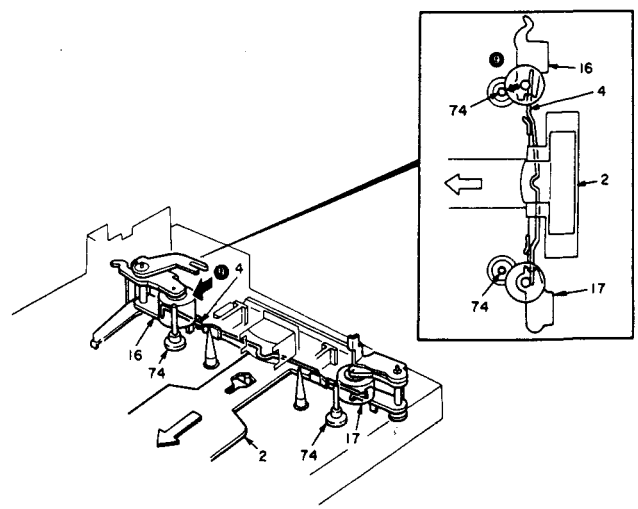


Fig. 5

10. The rotation of the motor is transmitted through various gears (78 → 25 → 31 → 6 →) to drive the winding side reel disk assembly (22) (❿).
11. The sending side reel disk assembly (22) is not driven by the motor rotation because it is separated from the play gear (6) (⓫).

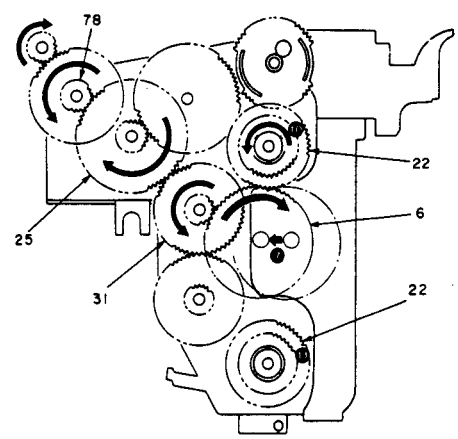


Fig. 6

KRC-501/551

MECHANISM OPERATION DESCRIPTION

PROGRAM (Manual Program Change)

1. When pressing FF/REW (92 and 93) levers at the same time (❶), the levers are placed into a slot on the PC (Play Change) plate (94) in direction of arrow (❷) in Fig.7.
2. The PC plate (94) moves in the direction of arrow (❸), trigger arm (81) is kicked in the direction of arrows (❹) and (❺), thereby releasing the turn-over gear (27).
3. The turn-over gear (27) is rotated in the direction of arrow (❻) by ED (End Detector) gear (26), which moves main plate (64).

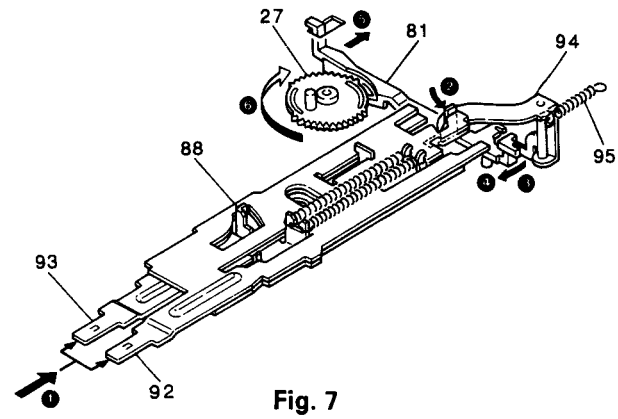


Fig. 7

4. The main plate (64) slides in direction of arrow (❼) in Fig.8 causing the following part movements;
   a) Head switch (10) movement is changed per arrow (❽).
   b) Force transferred from pinch roller spring (4) changes the relation of pinch roller and capstan to each other, per arrow (❾).
   c) Seesaw plate (20) is moved by the main plate and seesaw plate spring (65), and moves seesaw working plate (84). All FF/REW operation is performed by this seesaw plate movement. See arrow (❿).

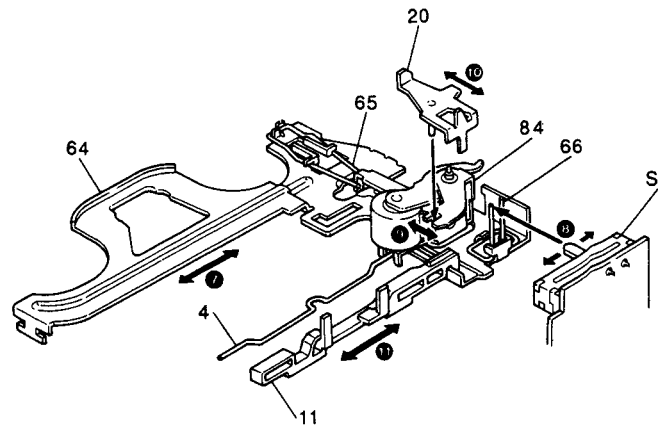
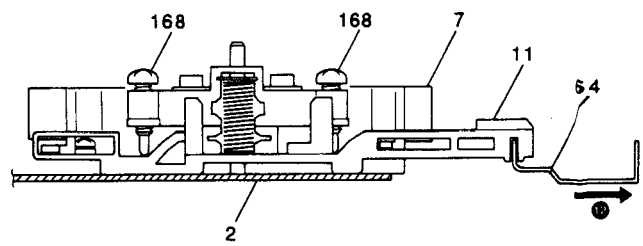


Fig. 8

   d) The shift plate (11) is moved in direction of arrow (⓫), and head moves up and down per arrows (⓬ , ⓭ and ⓮) in Fig.9.



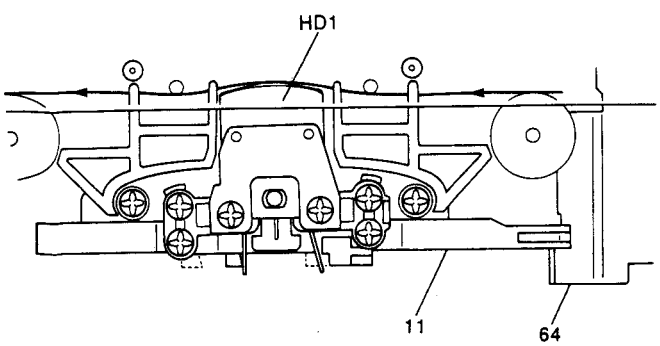


Fig. 10

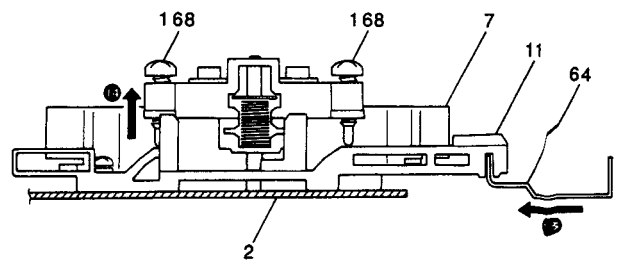


Fig. 9

MECHANISM OPERATION DESCRIPTION

e) The play gear metal (5) is engaged, per arrows (⑮) and (⑯) in Fig.11. Then play gear (6) is connected to take-up reel assembly (22) on forward side in FWD play, and connected to the other take-up reel assembly in REV play. Rotation from the play clutch (31) is transferred to take-up reel assembly per arrows (⑰) and (⑱) in Fig.11. As mentioned above, the direction in play mode can be changed. During play mode active, the head panel is moved backward by head panel return arm (88) in direction of arrow (⑲) in Fig.11. The Mute switch (S2) is turned on per arrow (⑳), and play mode is not reversed while FF/REW levers are pushed by operation of anti-reverse arm (33). See Fig.12.

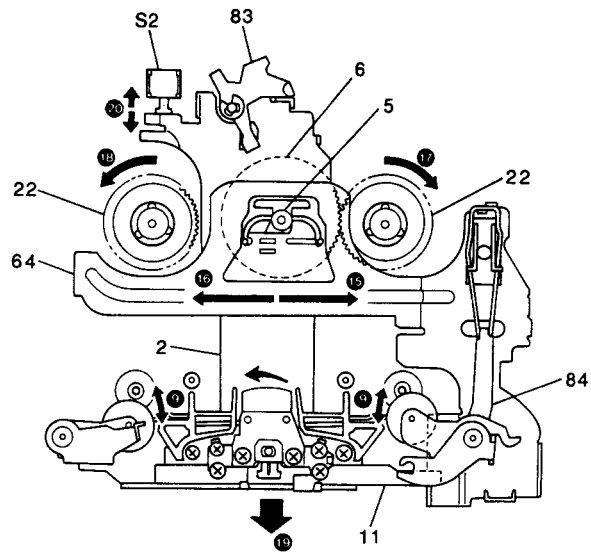


Fig. 11

KRC-501/551

MECHANISM OPERATION DESCRIPTION

FF

1. Press the FF lever (92) (❶).
2. The return arm (88) is pushed by the FF lever (92) and rotates (❷).
3. The head plate (2) is pulled by the return arm (88) and moves back (❸).
4. The seesaw plate (20) is pushed by the FF lever (92) and rotates (❹).

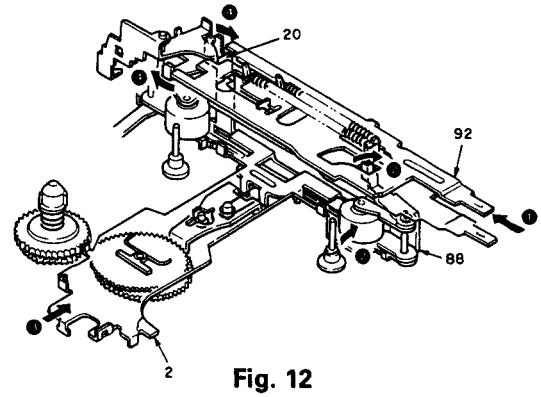


Fig. 12

5. The FR slide plate (86) is pulled by the seesaw plate (20) and moves forward (❺).
6. The working plate (70) is pulled by the FR slide plate (86), and the FR gear (71) engages with the clutch assembly (31) and winding side reel disk assembly (22) (❻).
7. The FF lever (92) is locked by the lock plate (96) (❼).

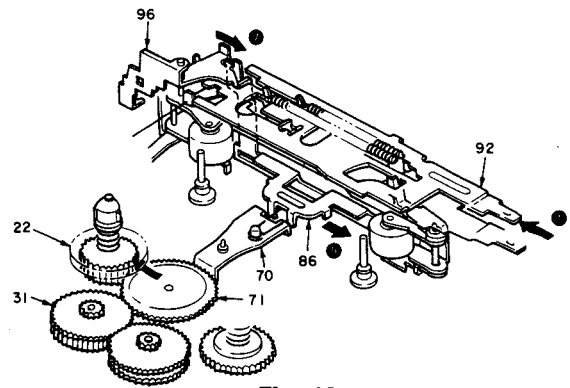


Fig. 13

8. If the REW lever (93) is pressed, the lock plate (96) rotates, the FF lever (92) lock is released and the deck enters play mode (❽).

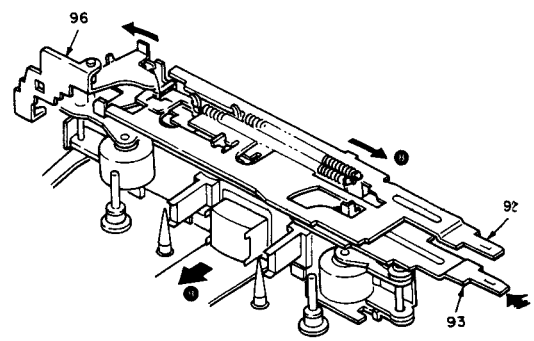


Fig. 14

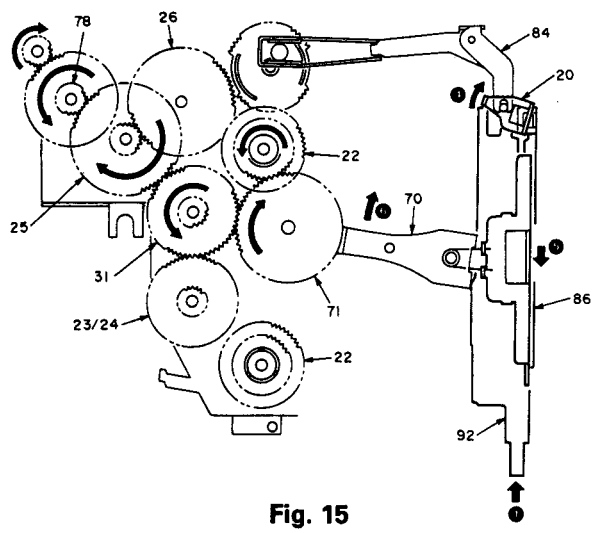


Fig. 15

MECHANISM OPERATION DESCRIPTION

REW

1. Press the REW lever (93) (❶).
2. The return arm (88) is pushed by the REW lever (93) and rotates (❷).
3. The head plate (2) is pulled back by the return arm (88) and moves back (❸).
4. The seesaw plate (20) is pushed by the REW lever (93) and rotates (❹).

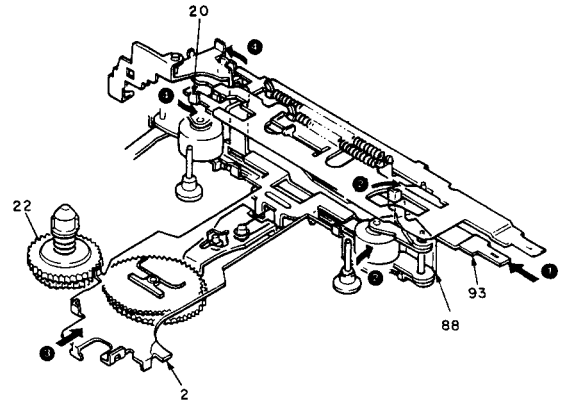


Fig. 16

5. The RF slide plate (86) is pushed by the seesaw plate (20) and moves backward (❺).
6. The working plate (70) is pulled by the RF side plate (86), and the FR gear (71) engages with the sending side reel disk assembly (22) and F gear (24) (❻).
7. The REW lever (93) is locked by the lock plate (96) (❼).

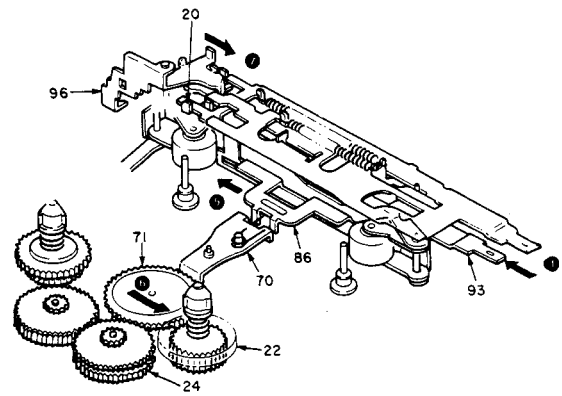


Fig. 17

8. If the FF lever (92) is pressed, the lock plate (96) rotates, the REW lever (93) lock is released and the deck enters play mode (❽).

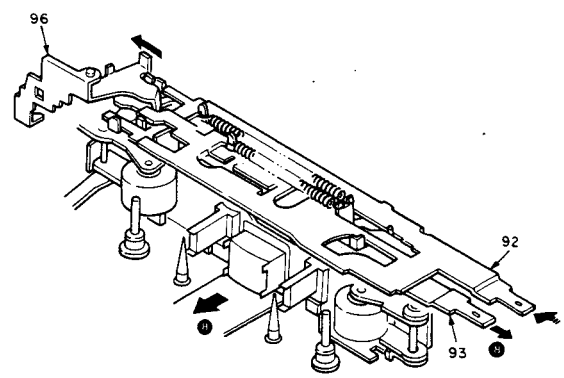
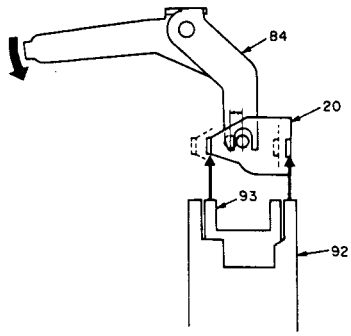


Fig. 18

KRC-501/551

MECHANISM OPERATION DESCRIPTION

Note : During reverse play, since the seesaw working plate (84) moves the center of the seesaw plate (20) to the right, pressing the FF lever activates the rewind operation and pressing the REW lever activates the fast-forward operation.



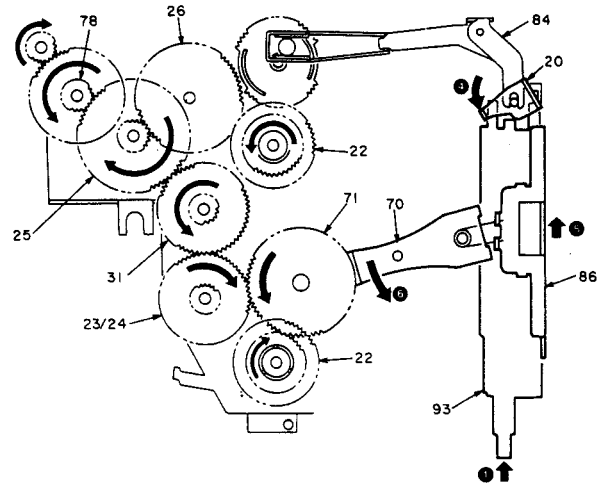


Fig. 19

AUTO REVERSE

1. When the end of the taps is reached during playback and the reel disk assembly (22) stops rotating, the ED plate (28) is pushed by the ED gear (26) (❶).
2. The ED gear (26) rotates and the boss pushes the ED plate (28) further (❷).
3. The ED plate (28) pushes the trigger arm (81) (❸).
4. The trigger arm (81) releases the reverse gear (27) lock (❹). (The "program" operation starts.)

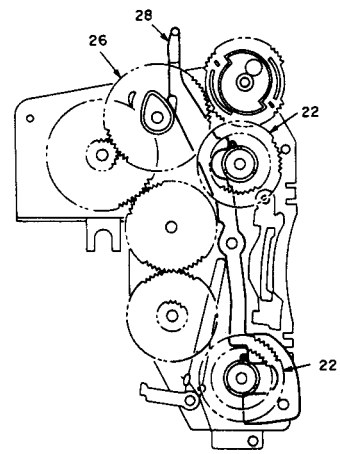


Fig. 20

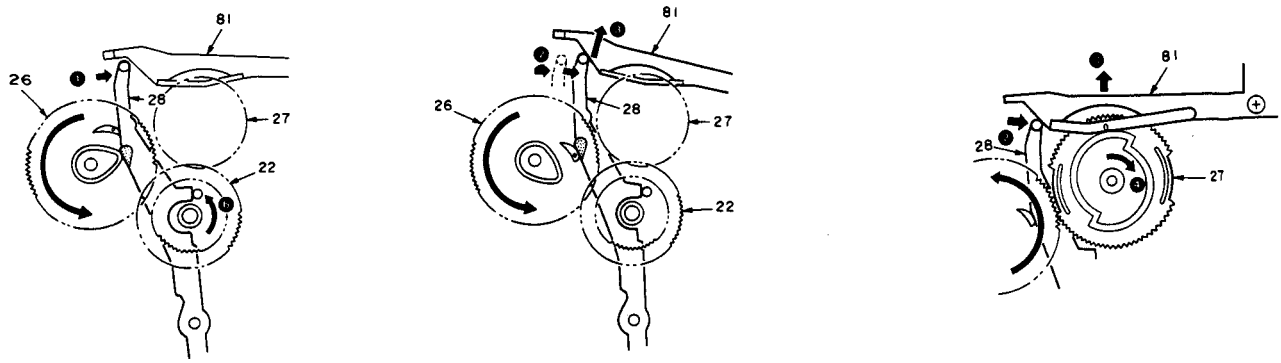


Fig. 21

MECHANISM OPERATION DESCRIPTION

5. In the same way, during FF and REW, the ED plate operates when the tape end is reached, When the plate (64) moves (❼), the lock plate (96) rotates (❽) and the FF/REW lever is released, causing the deck to enter play mode (❾).

6. The pin at the lower side of the reel disk assembly (22) resets the ED plate (28) (❻).

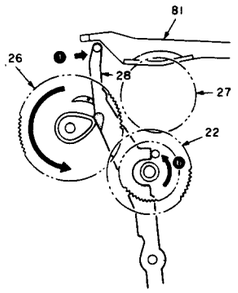


Fig. 23

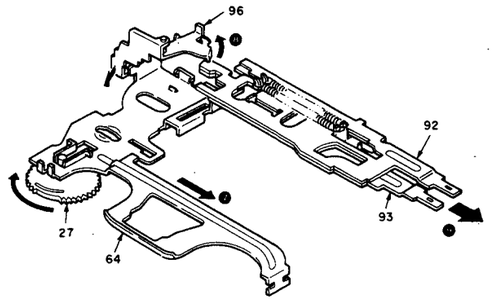


Fig. 22

EJECT

1. Press the EJ lever (61) (❶).
2. The push plate (58) is pushed by the EJ lever (61) and rotates the push arm (83) (❷).
3. The push arm (83) moves the head plate (2) back (❸).
4. The EJ lever (61) moves the rod (52) and rotates the PE plate (44) (❹).

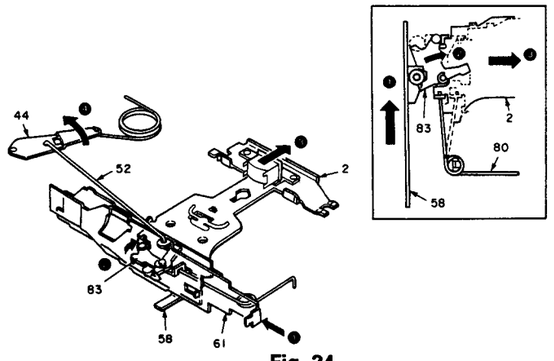


Fig. 24

5. The holder (48) moves up following the push plate (58) groove (❺).
6. The PE plate (44) turns the reverse spring (47) over and pushes out the pack slider (50) (❻).

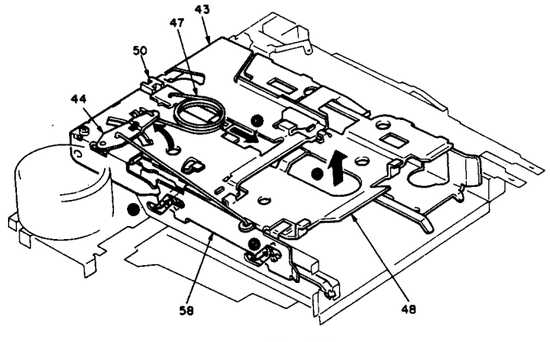


Fig. 25

KRC-501/551

ADJUSTMENT

Set the controls and switches as follows.

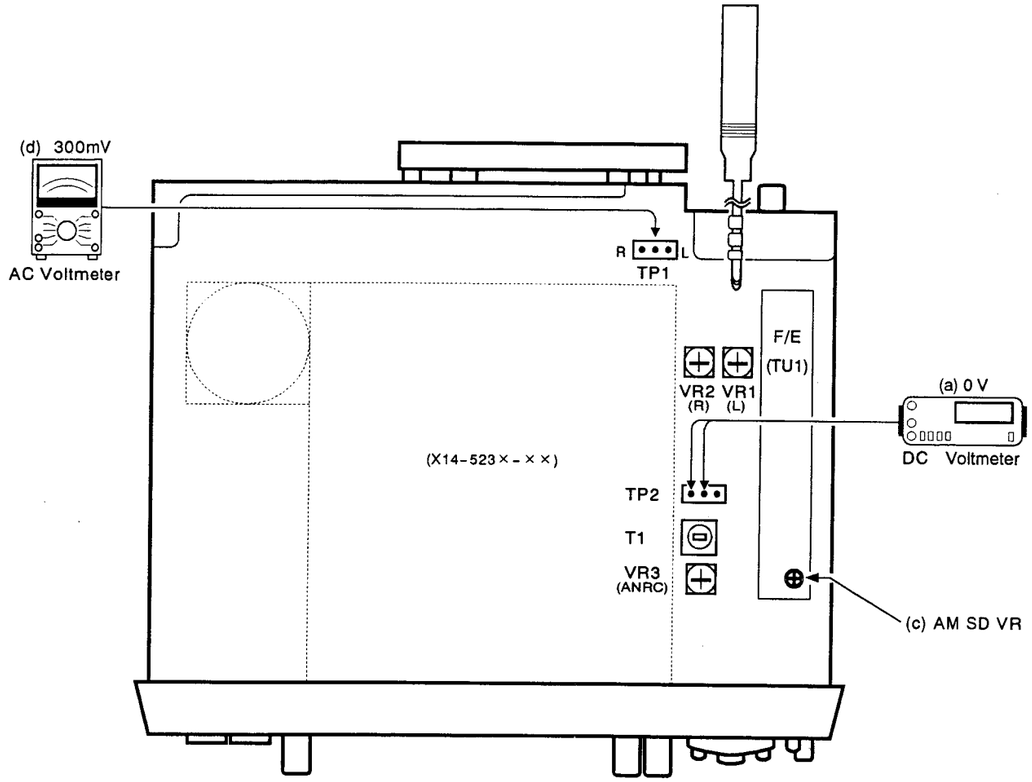
BALANCE	:center position	LOUD	:OFF	T.ADV	:OFF
FADER	:center position	AUTO	:OFF	METAL	:OFF
BASS	:center position	LOCAL	:OFF	DOLBY NR	:OFF
TREBLE	:center position				

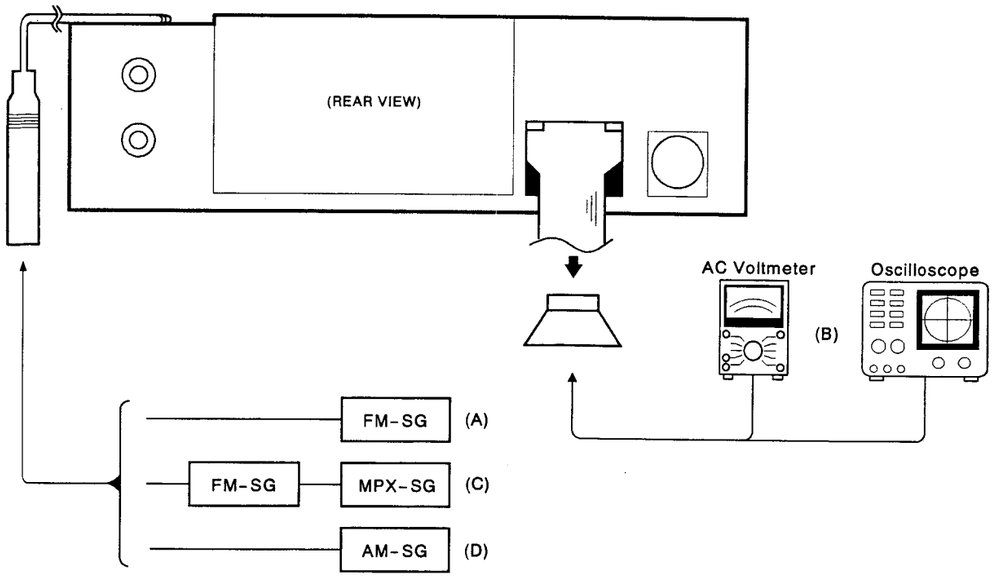
No	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER (RECEIVER)	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	DISCRI-MINATOR	(A) 98.1MHz 0dev 60dB μ (ANT input)	Connect a DC voltmeter to TP2	FM 98.1MHz	T1	0V	(a)
2	ANRC	(C) 98.1MHz 1kHz, ±67kHz dev Pilot: ±7.5kHz dev Selector:L or R 35dB μ (ANT input)	(B)	FM 98.1MHz	VR3	Separation 10dB	
AM SECTION							
(1)	SEEK STOP LEVEL	(D) 990 kHz 0% mod 35dB μ (ANT input)	–	AM 990 kHz	VR (TU1)	STOP	(c)
CASSETTE DECK SECTION							
[1]	AZINUTH	MTT-114 10kHz	(B)	TAPE PLAY	Head Azimuth Screw	–	
[2]	PLAY BACK LEVEL	MTT-150	Connect an AC voltmeter to TP1	TAPE PLAY	VR1 (L) VR2 (R)	300mV	(d)

*Test mode : Turn power ON while holding the [DOWN] and [DISP] keys depressed. (All of the LCD elements light.)
Then, press the [FM] or [AM] key.

To quit : Power OFF.

ADJUSTMENT





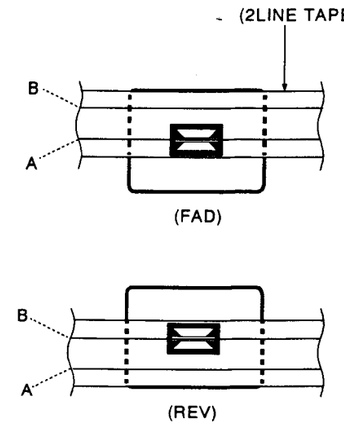
KRC-501/551

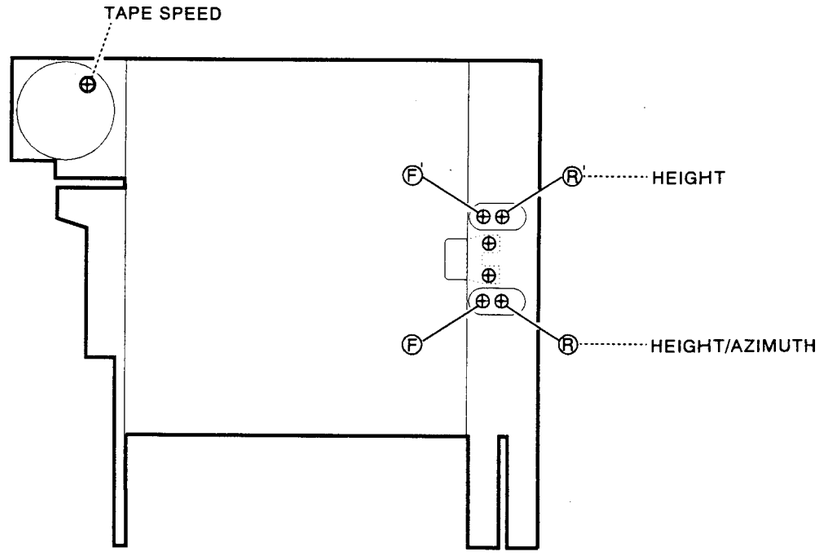
ADJUSTMENT

Head Angle Adjustment

Head height alignment procedure

- During FWD transport, adjust screws Ⓕ and Ⓕ' so that line A of 2-line tape passes through the center of the head shield plate (white section).
- During REV transport, adjust screws Ⓡ and Ⓡ' so that line B of 2-line tape passes through the center of the head shield plate (white section).
- After the alignment above, reverse the transport direction and check the FWD alignment again. If it is deviated, perform alignment again. (Tape used: SCC-1659, manufactured by A-BEX).





PC BOARD (COMPONENT SIDE VIEW)

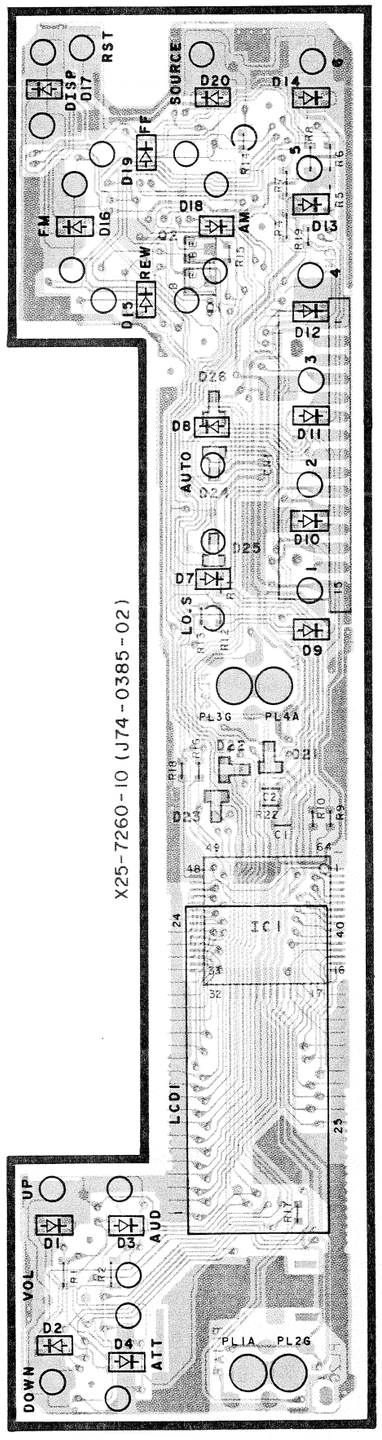
(X14-523X-XX)

IC	Q	address
1		4H
2		4G
3		5F
4		5H
5		4F
6		2G
7		2F
8		5E
9		6F
	1	4H
	2	4H
	3	4H
	4	4H
	5	4I
	7	5G
	8	6G
	9	6G
	10	4F
	11	5G
	12	4F
	14	4D
	15	4D
	16	4D
	17	5D
	18	5D
	19	5D
	20	5D
	21	4D
	22	4D
	24	4D
	25	4E
	26	4E
	27	6D
	28	6D
	29	5D
	30	5D
	31	7D
	32	7D
	33	6D
	34	6D
	35	5D
	36	6E
	37	6E
	38	6E
	39	7F
	41	3G
	42	6E
	43	7E
	44	5G
	46	6E
	47	6F
	48	6G
	49	7F
	51	5G
	53	3G
	54	3G
	55	3H
	56	3H
	57	4I
	58	6I

(X25-7260-10)

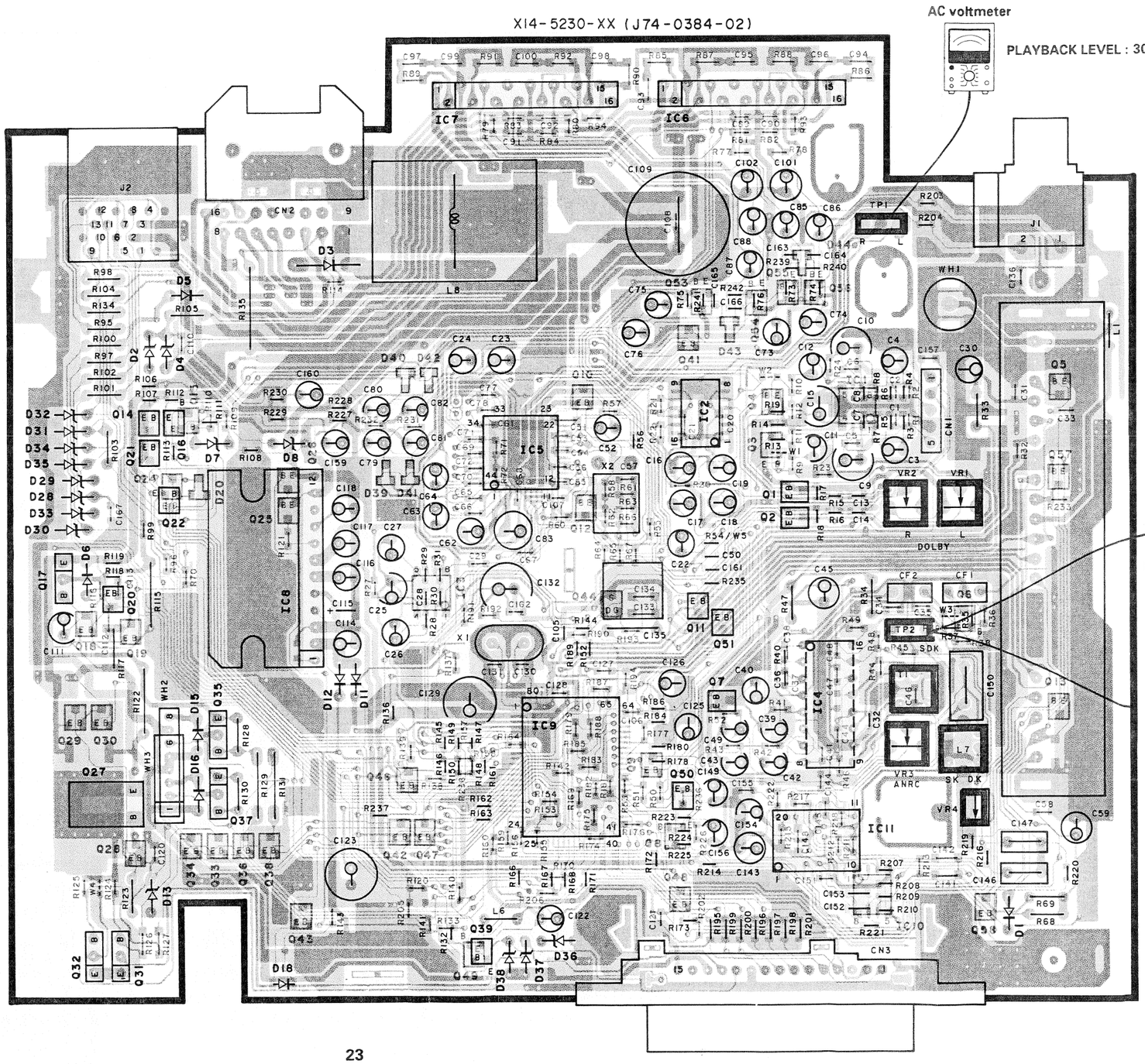
IC	Q	address
1		5C
	1	3B
	2	2B

SWITCH UNIT(X25-7260-10)



SYNTHESIZER UNIT(X14-5230-XX) -10:501, -21:551

X14-5230-XX (J74-0384-02)



AC voltmeter

PLAYBACK LEVEL : 300mV

DC voltmeter

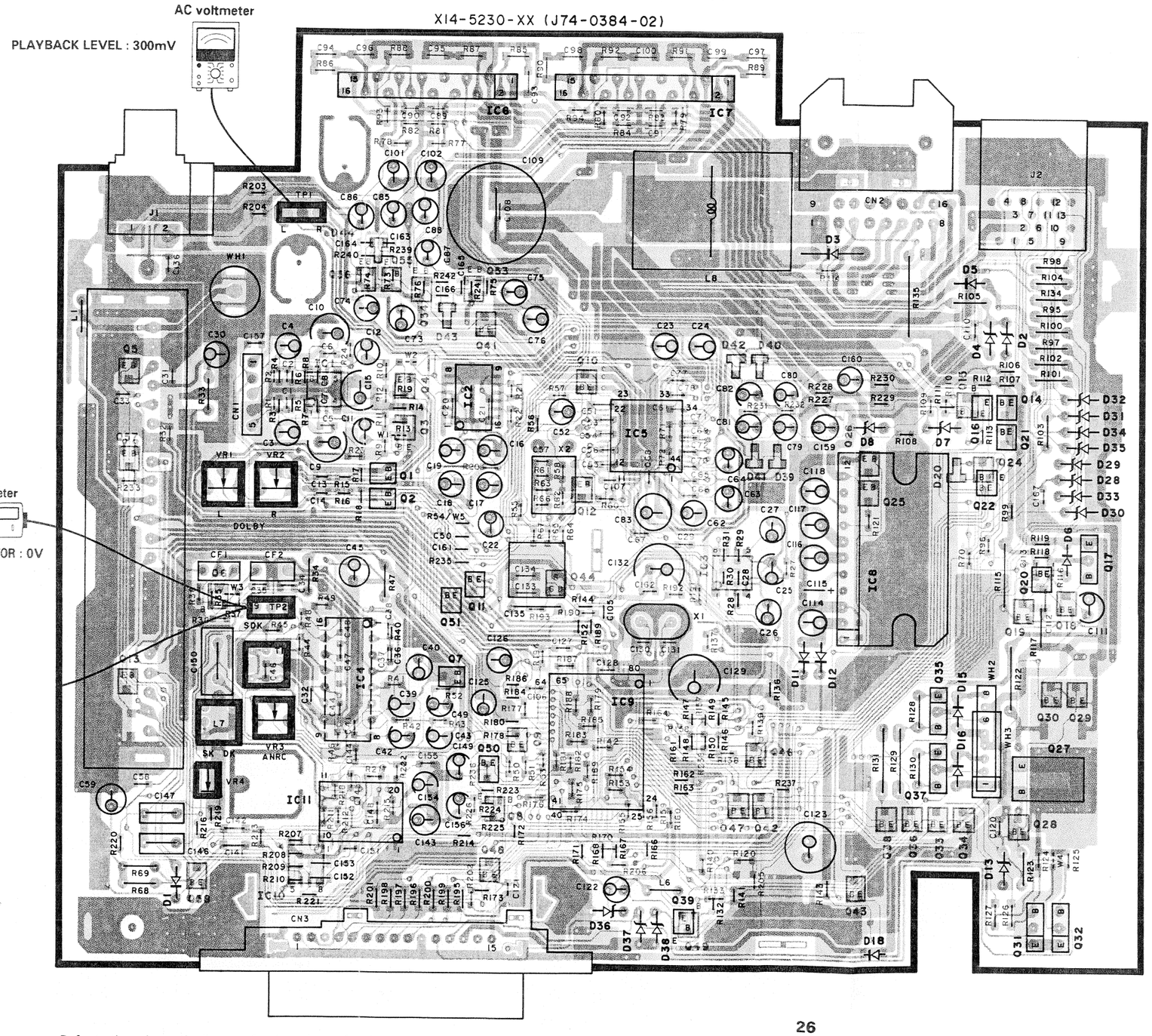
DISCRIMINATOR : 0V

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (FOIL SIDE VIEW)

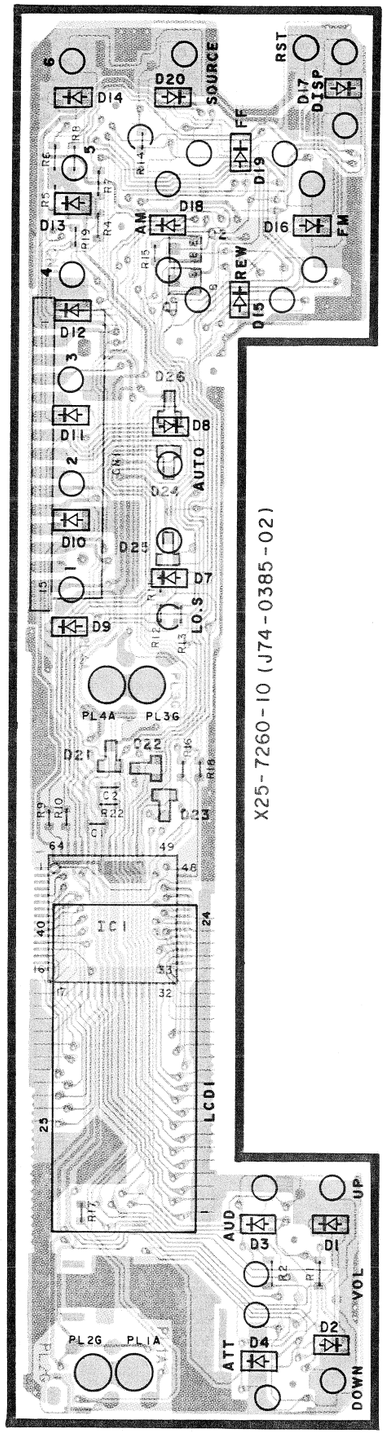
SYNTHESIZER UNIT(X14-5230-XX) -10:501, -21:551

X14-5230-XX (J74-0384-02)



Refer to the schematic diagram for the values of resistors and capacitors.

SWITCH UNIT(X25-7260-10)



(X14-523X-XX)

IC	Q	address
1		4M
2		4N
3		5O
4		5M
5		4O
6		2N
7		2O
8		5P
9		6O
	1	4M
	2	4M
	3	4M
	4	4M
	5	4L
	7	5N
	8	6N
	9	6N
	10	4O
	11	5N
	12	4O
	14	4Q
	15	4Q
	16	4Q
	17	5Q
	18	5Q
	19	5Q
	20	5Q
	21	4Q
	22	4Q
	24	4Q
	25	4P
	26	4P
	27	6Q
	28	6Q
	29	5Q
	30	5Q
	31	7Q
	32	7Q
	33	6Q
	34	6Q
	35	5Q
	36	6P
	37	6P
	38	6P
	39	7O
	41	3N
	42	6P
	43	7P
	44	5N
	46	6P
	47	6O
	48	6N
	49	7O
	51	5N
	53	3N
	54	3N
	55	3M
	56	3M
	57	4L
	58	6L

(X25-7260-10)

IC	Q	address
1		5R
	1	3S
	2	2S

(X14-5230-XX) -12: KRC-501 -23: KRC-551

DC1 (E30-4225-05)

FRONT L+ — WHT — GRN
FRONT L− — WHT/BLK — GRN/BLK
FRONT R− — GRY/BLK — PURPLE/BLK
FRONT R+ — GRY — PURPLE
P.CON/ANT CON — BLU
ACC — RED
GND — BLK
B.U. — YEL

REAR R+ / REAR R− / REAR L− / REAR L+

DC CONNECTOR CN2

F1 10A

CD-CH CONNECTOR J2

(TOP VIEW)

1 : REQ H
2 : GND
3 : B.U.
4 : ON
5 : MUTE
6 : CH GND
7 : RST
8 : Rch
9 : REQ C
10 : DATA C
11 : DATA H
12 : Lch
13 : CLK

IC7 FRONT
IC6 REAR
POWER AMP

MUTE
Q53 Q54 Q55 Q56 D43 D44

CRSC
Q10 Q11 Q12

IC5

TP1

NC, MPX
E. VOL

CASSETTE MECHANISM ASS'Y (D40-1054-05)

SOL1 S2 M1 S1
WH1 WH2
TPS GND MUTE GND GND MO+B PACKIN GND

T.ADV
Q35 Q36 Q37 Q38 Q27 Q28 Q29 Q30 Q31 Q32 Q33 Q34
MOTOR SW
LAMP SW
10V AVR 10.1V

P.CON
Q18 Q19 Q17 Q20 Q21 Q14 Q16 Q15
POWER DET

CH-RESET
Q48 Q49 Q39

Q22 D20

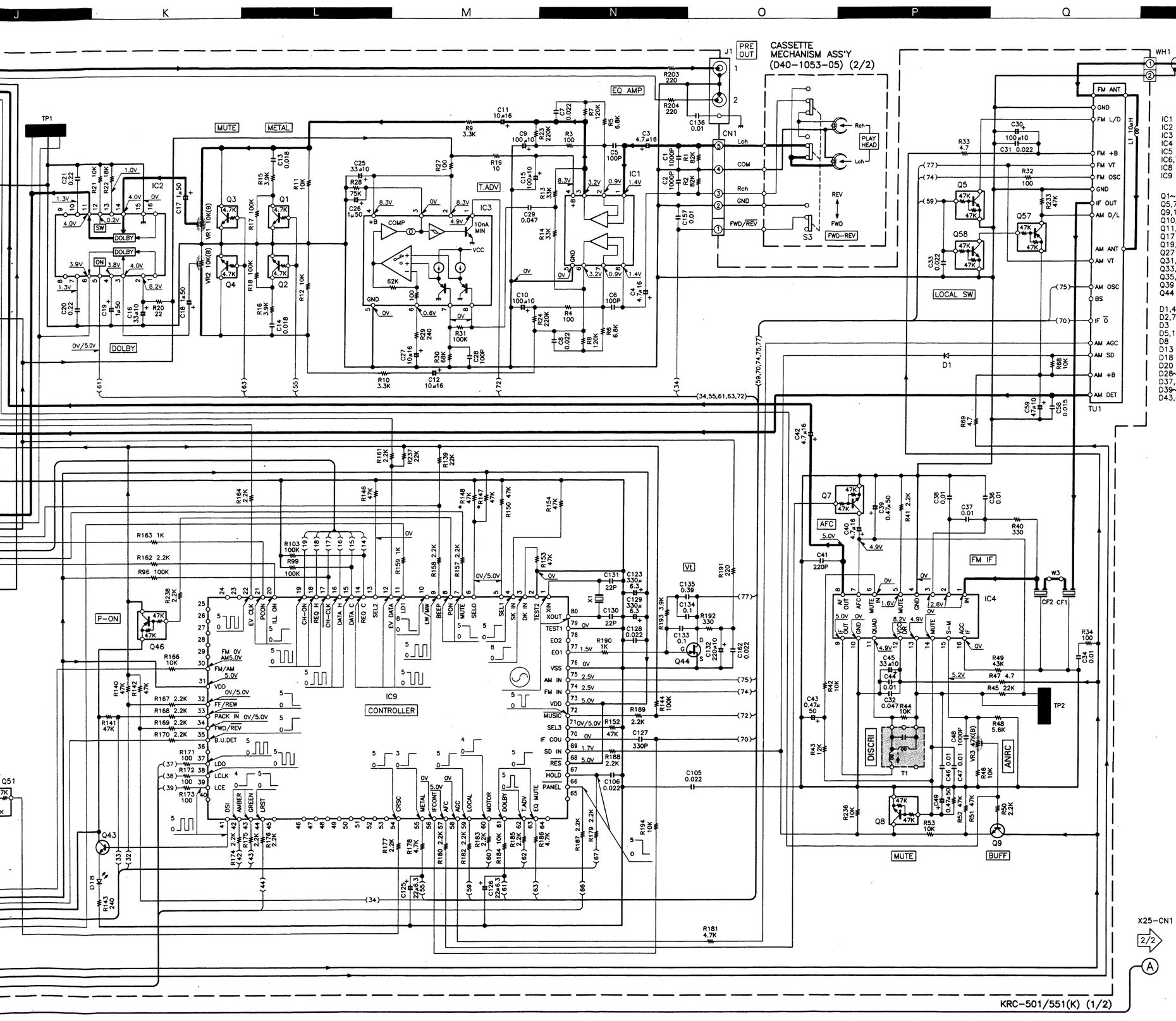
IC8 AVR
5V AVR
BAND SW
9V AVR
OVER VOLTAGE PROTECTION
CE
MUTE
Q26 Q25 Q24 Q51 Q41 Q42 Q47
MUTE DR
STBY

P-ON

CN3
U GND / ILL GND / AMBER+B / GREEN+B / S.GND / LDO / L CLK / L CE / LDI / L RST / CH RST / VDD / PANE SW

MODEL NAME	UNIT NAME	R147	R148
KRC-501	X14-5230-10	NO	YES
KRC-551	X14-5230-21	YES	NO

SIGNAL LINE
GND LINE
+B LINE



IC1	:	BA328F
IC2	:	HA12134AF
IC3	:	BA3703F
IC4	:	LA1143B
IC5	:	TDA7340P
IC6,7	:	AN7190K
IC8	:	BA3906-V4
IC9	:	LC72329-8923
Q1~4,53~56	:	DTC143TK
Q5,7,8,26,30,42,47,49,51,58	:	DTC144EK
Q9,12,14~16,20,28,43	:	2SC2412K
Q10,18,41	:	2SA1037K
Q11,21,22,24,25,46,48,57	:	DTA144EK
Q17	:	2SB1277
Q19,29	:	DTA124EK
Q27	:	2SB1184
Q31,32	:	2SB1326
Q33,34,36,38	:	DTC114EK
Q35,37	:	2SB1443
Q39	:	2SA1036K
Q44	:	2SK536
D1,4,6,11,12	:	1SS133
D2,7	:	UZL-6(L3)
D3	:	RM10ZLF
D5,15,16	:	AM01Z
D8	:	UZL-7(L3)
D13	:	UZL-11(M2)
D18	:	B30-1449-05
D20	:	DAN202K
D28~36	:	UZ-6.2BS(B)
D37,38	:	UZ-11BS(B)
D39~42	:	DA204K
D43,44	:	DAP202K

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

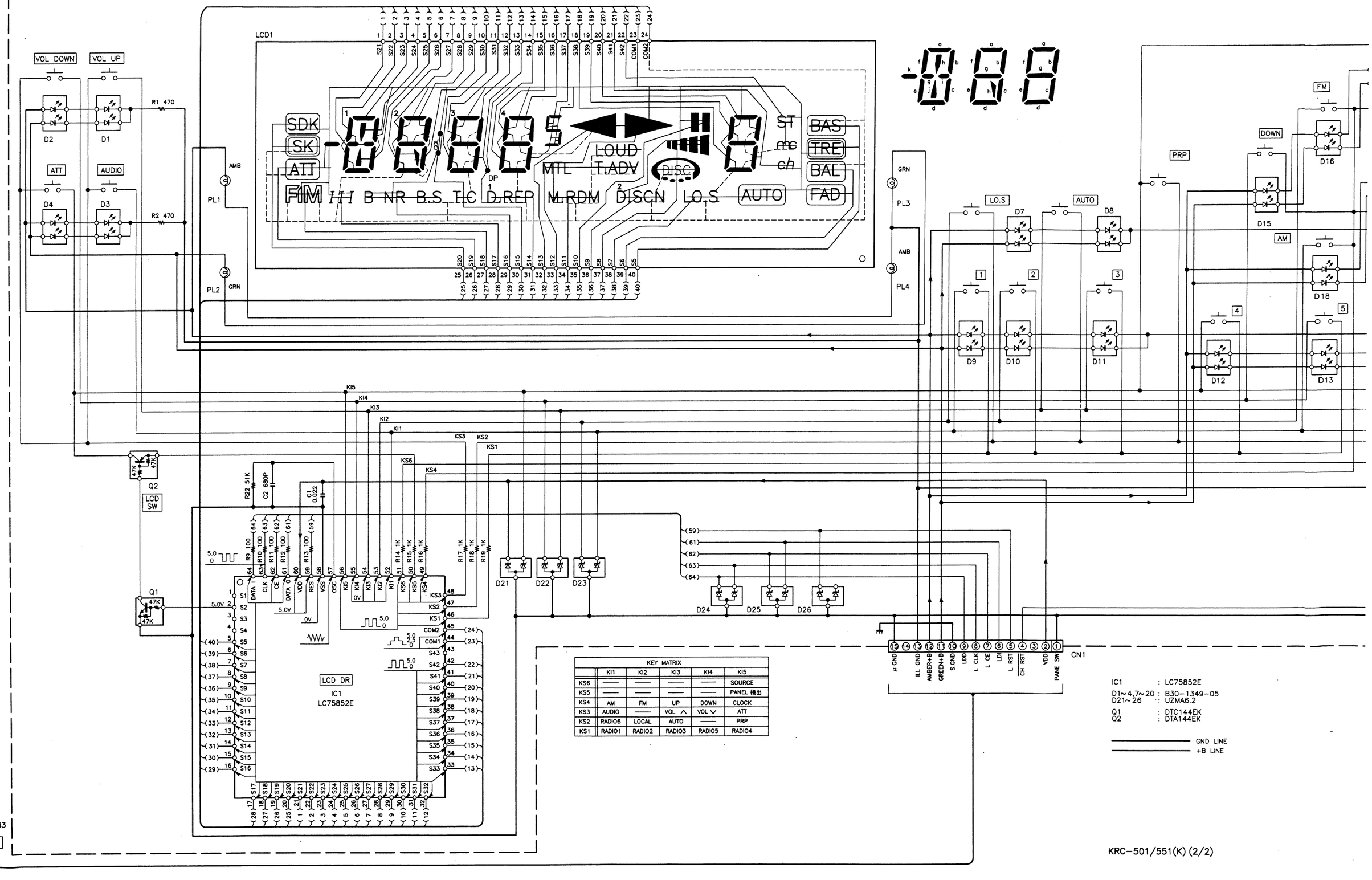
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y36-1960-10

KRC-501/551

KENWOOD

(X25-7260-10)



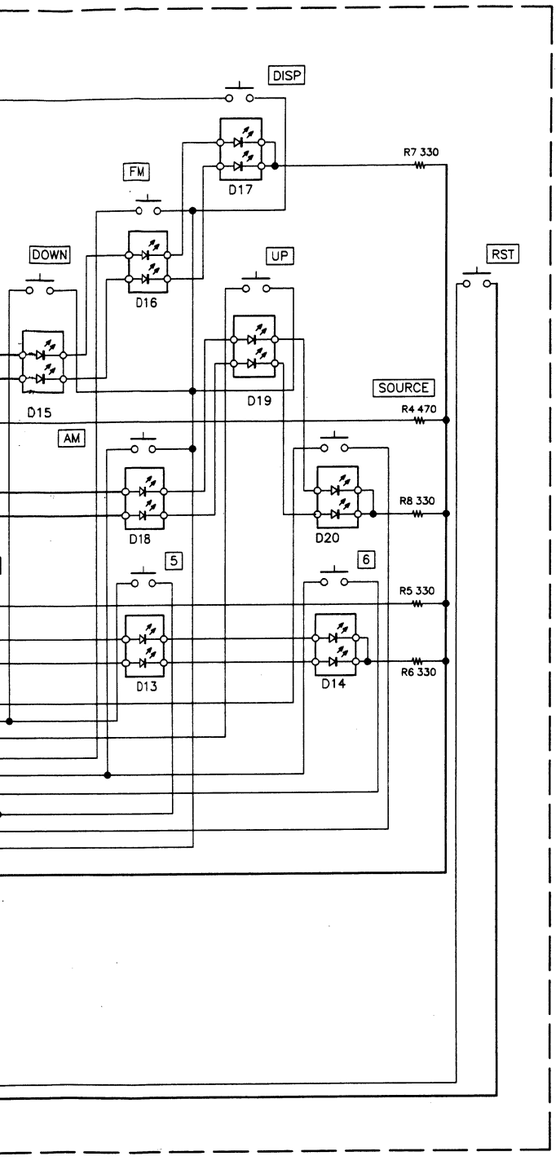
KEY MATRIX					
	KI1	KI2	KI3	KI4	KI5
KS6	——	——	——	——	SOURCE
KS5	——	——	——	——	PANEL 検出
KS4	AM	FM	UP	DOWN	CLOCK
KS3	AUDIO	——	VOL ∧	VOL ∨	ATT
KS2	RADIO6	LOCAL	AUTO	——	PRP
KS1	RADIO1	RADIO2	RADIO3	RADIO5	RADIO4

IC1 : LC75852E
D1~4,7~20 : B30-1349-05
D21~26 : UZMA6.2
Q1 : DTC144EK
Q2 : DTA144EK

GND LINE
+B LINE

X14-CN3
1/2
A

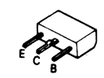
KRC-501/551(K) (2/2)



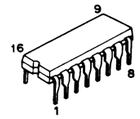
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

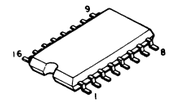
2SB1326



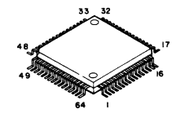
LA1143B



HA12134AF

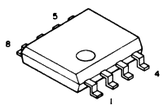


LC75852E

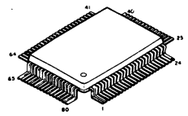


DTA124EK DTA144EK
DTC114EK DTC143TK
DTC144EK 2SA1036K
2SA1037K 2SC2412K

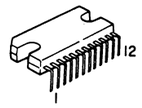
BA328F
BA3703F



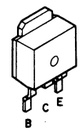
LC72329-8923



BA3906-V4

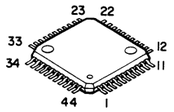


2SB1184

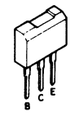


DA204K

TDA7340P

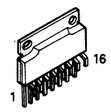


2SB1277
2SB1443

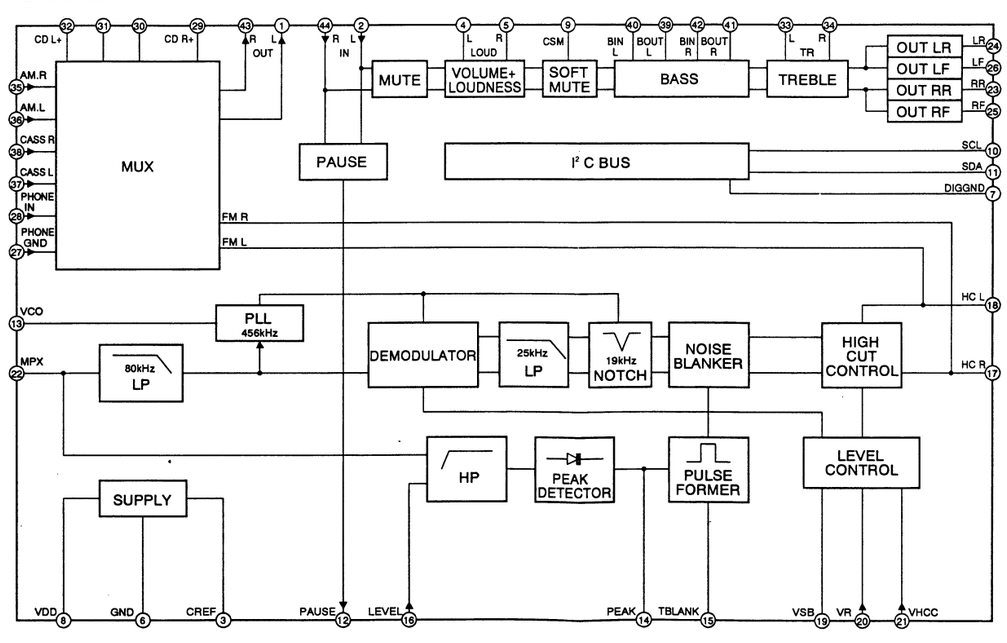


2SK536

AN7190K



TDA7340P

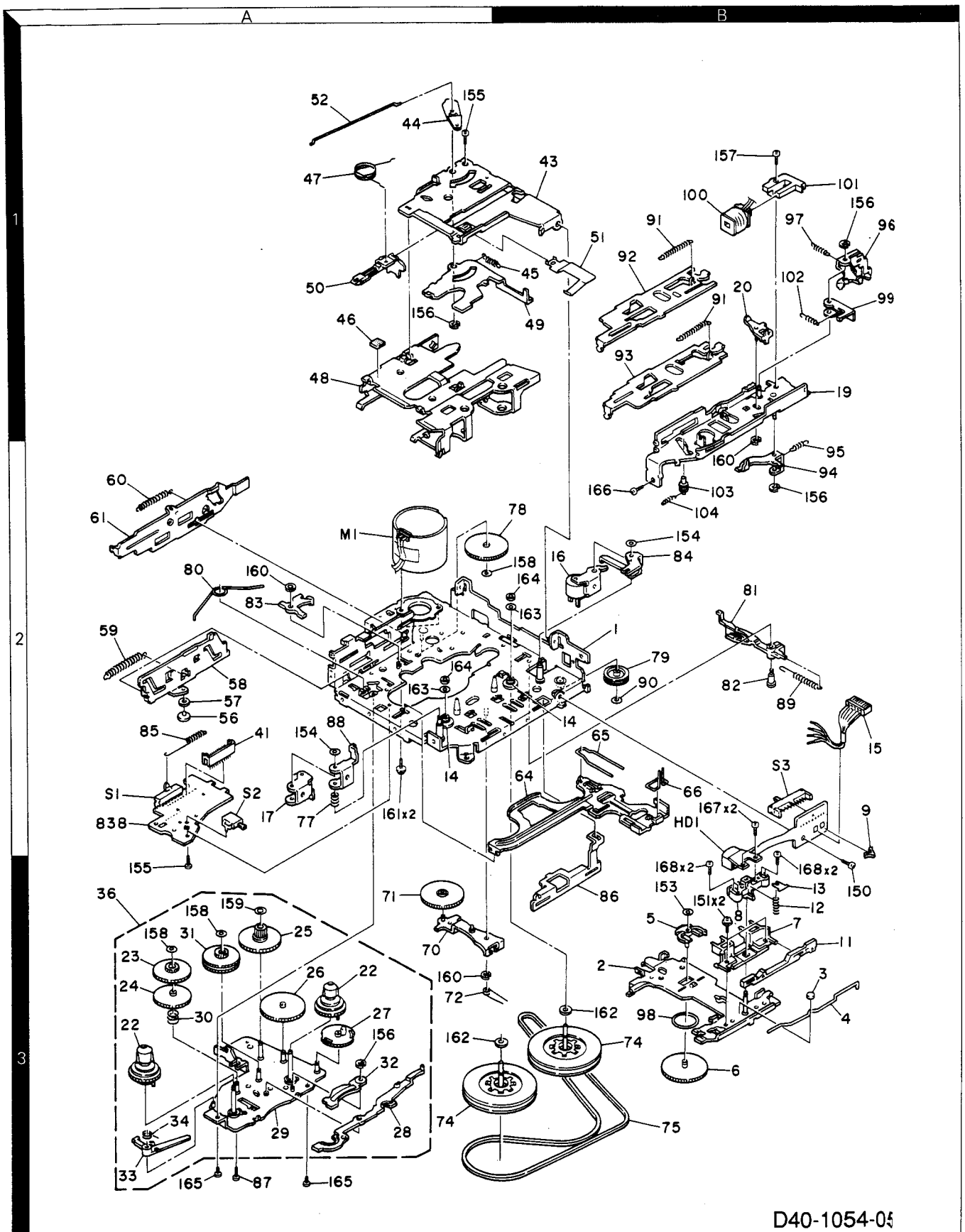


Y36-1960-10

KRC-501/551

KENWOOD

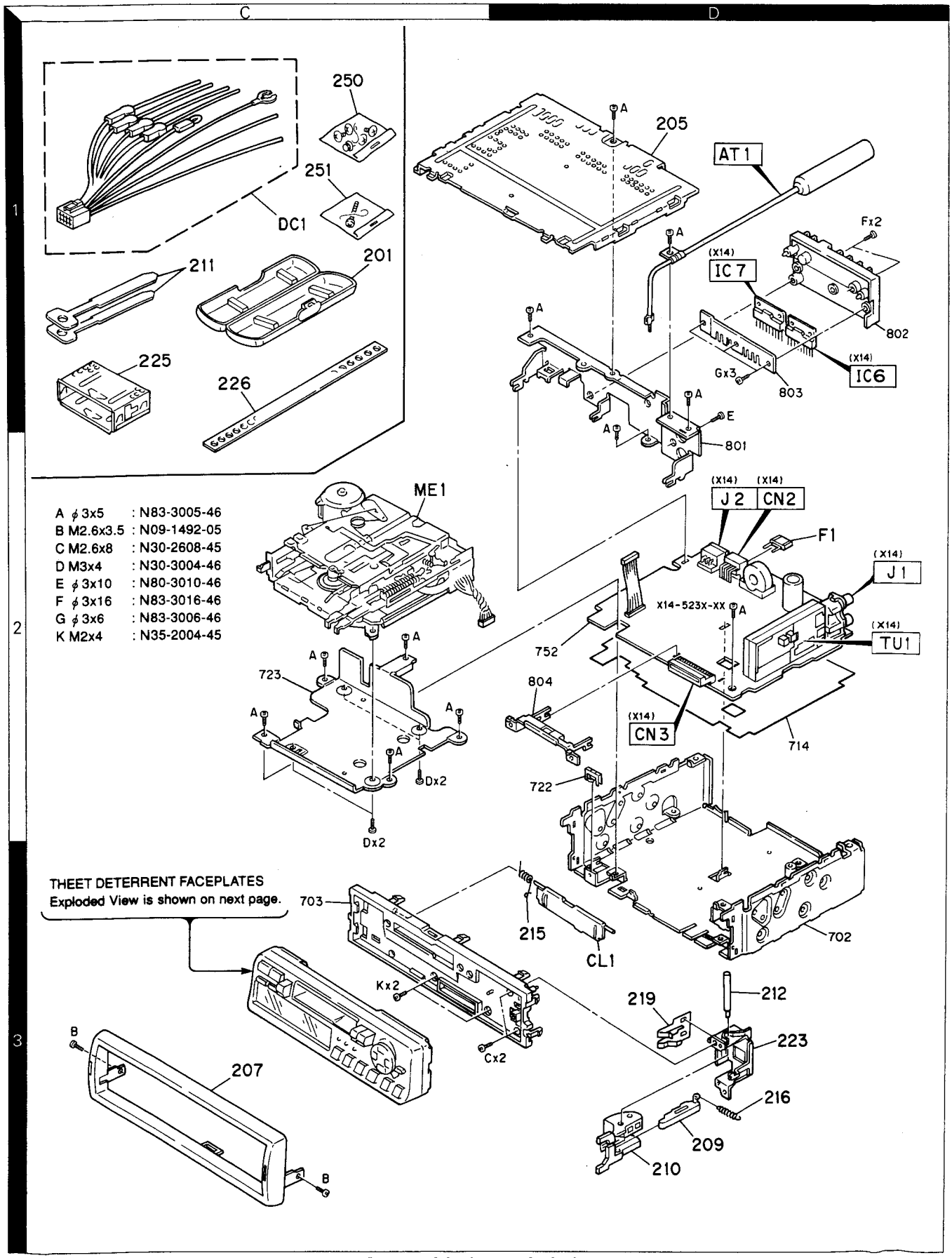
EXPLODED VIEW (MECHANISM)



D40-1054-05

KRC-501/551

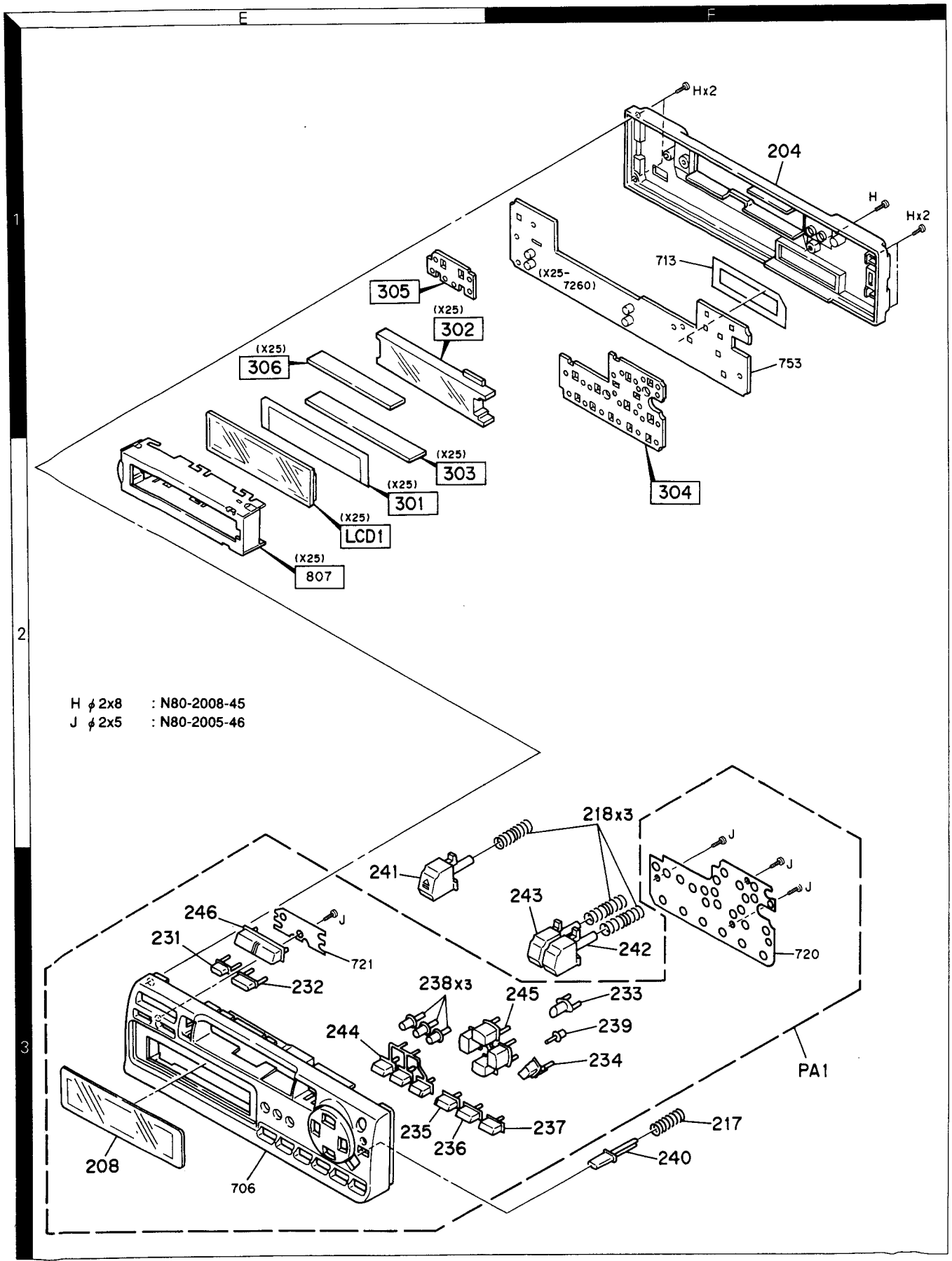
EXPLODED VIEW (UNIT)



A	φ 3x5	: N83-3005-46
B	M2.6x3.5	: N09-1492-05
C	M2.6x8	: N30-2608-45
D	M3x4	: N30-3004-46
E	φ 3x10	: N80-3010-46
F	φ 3x16	: N83-3016-46
G	φ 3x6	: N83-3006-46
K	M2x4	: N35-2004-45

Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

KRC-501/551

PARTS LIST

× New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht gellefert.

Ref No. 参照番号	New 新	Parts No. 部品番号	Description 部品名／規格
		KRC-501/551	
201 1C	*	A02-1443-03	PLASTIC CABINET ASSY
204 1F	*	A46-1232-01	REAR COVER
205 1D	*	A52-0679-02	TOP COVER
CL1 3D	*	A53-1600-03	CASSETTE LID
PA1 3E	*	A64-0378-02	PANEL ASSY (KRC-501)K
PA1 3E	*	A64-0379-02	PANEL ASSY (KRC-551)M
207 3C	*	B07-2057-02	ESCUTCHEON
208 3E	*	B10-1593-03	FRONT GLASS
-		B46-0100-30	WARRANTY CARD
-		B46-0172-03	QUESTIONAIRE CARD (KRC-501)K
-		B46-0606-04	ID CARD
-		B58-1213-04	CAUTION CARD (EIA) (KRC-501)K
-		B58-1223-04	CAUTION CARD (CH CONNECTION)
-	*	B64-0464-00	INSTRUCTION MANUAL (KRC-501)K
-	*	B64-0465-00	INSTRUCTION MANUAL (KRC-551)M
209 3D		D10-2837-03	LEVER
210 3D		D10-2838-03	LEVER
211 1C		D10-2984-04	LEVER
212 3D		D21-2142-04	SHAFT
ME1 2C		D40-1054-05	CASSETTE MECHANISM ASSY
⚠ DC1 1C	*	E30-4225-05	DC CORD
⚠ F1 2D	*	F52-0006-05	FUSE(MINI BLADE TYPE) (10A)
215 3D		G01-2525-04	TORSION COIL SPRING
216 3D	*	G01-2710-04	EXTENSION SPRING
217 3F	*	G01-2711-04	COMPRESSION SPRING
218 3F	*	G01-2726-04	COMPRESSION SPRING
219 3D	*	G02-1191-03	FLAT SPRING
-	*	H10-4487-02	POLYSTYRENE FOAMED FIXTURE
-		H25-0329-04	PROTECTION BAG (280X450X0.03)
-		H25-0337-04	PROTECTION BAG (180X300X0.03)
-	*	H54-0287-04	ITEM CARTON CASE (KRC-501)K
-	*	H54-0288-04	ITEM CARTON CASE (KRC-551)M
-	*	H64-0323-04	OUTER CARTON CASE (KRC-501)K
-	*	H64-0324-04	OUTER CARTON CASE (KRC-551)M
224 3D	*	J21-7545-03	MOUNTING HARDWARE
225 1C		J21-7564-13	MOUNTING HARDWARE ASSY
226 1C		J54-0071-04	STAY
231 3E	*	K24-1552-04	KNOB (ATT)
232 3E	*	K24-1553-04	KNOB (AUD)
233 3F	*	K24-1554-04	KNOB (DISP)
234 3F	*	K24-1555-04	KNOB (SRC)
235 3E	*	K24-1556-03	KNOB (4)
236 3E	*	K24-1557-03	KNOB (5)
237 3E	*	K24-1558-03	KNOB (6)
238 3E	*	K24-1559-04	KNOB (AUTO)
239 3F	*	K24-1560-04	KNOB (RESET)
240 3F	*	K24-1561-04	KNOB (RELEASE)
241 3E	*	K24-1562-04	KNOB (EJECT)
242 3F	*	K24-1563-04	KNOB (FF)
243 3F	*	K24-1564-04	KNOB (REW)
244 3E	*	K25-0659-03	KNOB (1,2,3)
245 3E	*	K25-0660-03	KNOB (FM,AM,TUNE)
246 3E	*	K25-0661-03	KNOB (VOL)
250 1C		N99-1571-05	SCREW SET
251 1C		N99-1610-15	SCREW SET (KRC-501)K
A 1D		N83-3005-46	PAN HEAD TAPTITE SCREW
B 3C		N09-1492-05	MACHINE SCREW (2.6X3.5,PAN)
C 3C		N30-2608-45	PAN HEAD MACHINE SCREW
D 2C		N30-3004-46	PAN HEAD MACHINE SCREW
H 1F		N80-2008-45	PAN HEAD TAPTITE SCREW
J 3F		N80-2005-46	PAN HEAD TAPTITE SCREW
K 3C		N35-2004-45	BINDING HEAD MACHINE SCREW

SYNTHESIZER UNIT (X14-523X-XX) 0-10: KRC-501 0-21 : KRC-551

D18	*	B30-1449-05	LED		
C1 ,2		CK73FB1H102K	CHIP C	1000PF	K
C3 ,4		CE04CW1C4R7M	ELECTRO	4.7UF	16WV
C5 ,6		CC73FCH1H101J	CHIP C	100PF	J
C7 ,8		CK73FB1H223KTA	CHIP C	0.022UF	K
C9 ,10		CE04CW1A101M	ELECTRO	100UF	10WV
C11 ,12		CE04CW1C100M	ELECTRO	10UF	16WV
C13 ,14		CK73FB1H183KTA	CHIP C	0.018UF	K
C15		CE04CW1A101M	ELECTRO	100UF	10WV
C16		CE04CW1A330M	ELECTRO	33UF	10WV
C17 -19		CE04CW1H010M	ELECTRO	1.0UF	50WV
C20 ,21		C93-0025-05	CERAMIC	0.22UF	K
C22		CE04CW1C4R7M	ELECTRO	4.7UF	16WV
C23 ,24		CE04CW1H010M	ELECTRO	1.0UF	50WV
C25		CE04CW1A330M	ELECTRO	33UF	10WV
C26		CE04CW1H010M	ELECTRO	1.0UF	50WV
C27		CE04CW1C100M	ELECTRO	10UF	16WV
C28		CC73FCH1H101J	CHIP C	100PF	J
C29		CK73FB1H473KTA	CHIP C	0.047UF	K
C30		CE04DW1A101M	ELECTRO	100UF	10WV
C31		CK73FB1H223KTA	CHIP C	0.022UF	K
C32		CK73FB1H473KTA	CHIP C	0.047UF	K
C33		CK73FB1H223KTA	CHIP C	0.022UF	K
C36 -38		CK73FB1H103K	CHIP C	0.010UF	K
C39		CE04CW1HR47M	ELECTRO	0.47UF	50WV
C40		CE04CW1C4R7M	ELECTRO	4.7UF	16WV
C41		CK73FB1H221K	CHIP C	220PF	K
C42		CE04CW1C4R7M	ELECTRO	4.7UF	16WV
C43		CE04CW1HR47M	ELECTRO	0.47UF	50WV
C44		CK73FB1H103K	CHIP C	0.010UF	K
C45		CE04CW1A330M	ELECTRO	33UF	10WV
C46 ,47		CK73FB1H103K	CHIP C	0.010UF	K
C48		CK73FB1H102K	CHIP C	1000PF	K
C49		CE04CW1HR47M	ELECTRO	0.47UF	50WV
C51		CK73EB1C684K	CHIP C	0.68UF	K
C52		CE04CW1H2R2M	ELECTRO	2.2UF	50WV
C53 ,54		CK73FB1H152K	CHIP C	1500PF	K
C55		CK73FB1H682K	CHIP C	6800PF	K
C56		CC73FCH1H181J	CHIP C	180PF	J
C57		CK73FB1H332K	CHIP C	3300PF	K
C58		CK73FB1H153KTA	CHIP C	0.015UF	K

E: Europe **W**: Without Europe **P**: Canada **X**: Australia
K: U.S.A. and Canada **M**: Without Europe, U.S.A. and Canada

⚠ indicates safety critical components.

PARTS LIST

× New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Telle onne **Parts No.** werden nicht geliefert.

Ref No. 参照番号	New 新	Parts No. 部品番号	Description 部品名／規格
C59		CE04NW1A470M	ELECTR⊙ 47UF 10WV
C61		CK73FB1H103K	CHIP C 0.010UF K
C62 -64		CE04CW1H010M	ELECTR⊙ 1.0UF 50WV
C65 ,66		CK73FB1H153KTA	CHIP C 0.015UF K
C67		CK73FB1H331K	CHIP C 330PF K
C68		CK73FB1H223KTA	CHIP C 0.022UF K
C69 -72		CK73FB1C104K	CHIP C 0.10UF K
C73 -76		CE04CW1C100M	ELECTR⊙ 10UF 16WV
C77 ,78		CK73FB1H152K	CHIP C 1500PF K
C79 ,80		CE04CW1C100M	ELECTR⊙ 10UF 16WV
C81 ,82		CE04CW1C4R7M	ELECTR⊙ 4.7UF 16WV
C83		CE04CW1A101M	ELECTR⊙ 100UF 10WV
C85 -88		CE04CW1H2R2M	ELECTR⊙ 2.2UF 50WV
C89 -92		CK73FB1H102K	CHIP C 1000PF K
C93 -100		CK73EB1E224K	CHIP C 0.22UF K
C101,102		C90-2681-05	ELECTR⊙ 33UF 16WV
C105,106		CK73FB1H223KTA	CHIP C 0.022UF K
C107		CK73FB1H473KTA	CHIP C 0.047UF K
C108		CK73FB1H223KTA	CHIP C 0.022UF K
C109	*	C90-2835-05	ELECTR⊙ 4700UF 16WV
C110		CK73FB1H223KTA	CHIP C 0.022UF K
C111		CE04DW1E3R3M	ELECTR⊙ 3.3UF 25WV
C112		CK73EB1H683K	CHIP C 0.068UF K
C113		CK73FB1C104K	CHIP C 0.10UF K
C114		CE04CW1C4R7M	ELECTR⊙ 4.7UF 16WV
C115		C92-0009-05	CHIP-TAN 4.7UF 10WV
C116-118		CE04CW1C4R7M	ELECTR⊙ 4.7UF 16WV
C120		CK73FB1H473KTA	CHIP C 0.047UF K
C121		CK73FB1H223KTA	CHIP C 0.022UF K
C122		CE04CW1C100M	ELECTR⊙ 10UF 16WV
C123		CE04CW0J331M	ELECTR⊙ 330UF 6.3WV
C125,126		CE04CW0J220M	ELECTR⊙ 22UF 6.3WV
C127		CK73FB1H331K	CHIP C 330PF K
C128		CK73FB1H223KTA	CHIP C 0.022UF K
C129		CE04CW0J331M	ELECTR⊙ 330UF 6.3WV
C130,131		CC73FCH1H220J	CHIP C 22PF J
C132		CE04CW1A221M	ELECTR⊙ 220UF 10WV
C133,134		C93-1032-05	CERAMIC 0.10UF K
C135		CF92V1H394J	MF-C 0.39UF J
C136		CK73FB1H103K	CHIP C 0.010UF K
C157		CK73FB1H103K	CHIP C 0.010UF K
C159,160		CE04CW1C100M	ELECTR⊙ 10UF 16WV
C161		CC73FCH1H680J	CHIP C 68PF J
C162		CK73FB1H223KTA	CHIP C 0.022UF K
C163-166		CK73FB1H392K	CHIP C 3900PF K
C167		CK73FB1H103K	CHIP C 0.010UF K
AT1 1D		E30-4205-05	C⊙RD WITH PLUG
CN1		E40-3240-05	PIN ASSY
CN2	*	E58-0836-05	RECTANGULAR RECEPTACLE
CN3	*	E58-0839-05	RECTANGULAR RECEPTACLE
J1		E13-0235-05	PH⊙N⊙ JACK
J2		E56-0809-05	CYLINDRICAL RECEPTACLE
TP1 ,2		E40-9184-05	PIN ASSY
WH2	*	E39-0090-05	WIRING HARNESS

SYNTHESIZER UNIT (X14-523X-XX) 0-10: KRC-501 0-21 : KRC-551

Ref No. 参照番号	New 新	Parts No. 部品番号	Description 部品名／規格
CF1 ,2		L72-0715-05	CERAMIC FILTER
L1		L40-1001-17	SMALL FIXED INDUCT⊙R(10UH,K)
L6		L40-1011-17	SMALL FIXED INDUCT⊙R
L8		L33-1021-05	CH⊙KE C⊙IL
T1		L30-0462-15	FM IFT
X1		L77-1163-05	CRYSTAL RES⊙NAT⊙R(4.5M)
X1		L77-1165-05	CRYSTAL RES⊙NAT⊙R(4.5MHZ)
X1		L77-2025-05	CRYSTAL RES⊙NAT⊙R
X2		L78-0520-05	RES⊙NAT⊙R
A 1D		N83-3005-46	PAN HEAD TAPTITE SCREW
E 1D		N80-3010-46	PAN HEAD TAPTITE SCREW
F 1D		N83-3016-46	PAN HEAD TAPTITE SCREW
G 1D		N83-3006-46	PAN HEAD TAPTITE SCREW
R1 ,2		RK73FB2A823J	CHIP R 82K J 1/10W
R3 ,4		RK73FB2A101J	CHIP R 100 J 1/10W
R5 ,6		RK73FB2A682J	CHIP R 6.8K J 1/10W
R7 ,8		RK73FB2A124J	CHIP R 120K J 1/10W
R9 ,10		RK73FB2A332J	CHIP R 3.3K J 1/10W
R11 ,12		RK73FB2A103J	CHIP R 10K J 1/10W
R13 ,14		RK73FB2A333J	CHIP R 33K J 1/10W
R15 ,16		RK73FB2A392J	CHIP R 3.9K J 1/10W
R17 ,18		RK73FB2A104J	CHIP R 100K J 1/10W
R19		RK73FB2A100J	CHIP R 10 J 1/10W
R20		RK73FB2A220J	CHIP R 22 J 1/10W
R21		RK73FB2A103J	CHIP R 10K J 1/10W
R22		RK73FB2A183J	CHIP R 18K J 1/10W
R23 ,24		RK73FB2A224J	CHIP R 220K J 1/10W
R27		RK73FB2A101J	CHIP R 100 J 1/10W
R28		RK73FB2A753J	CHIP R 75K J 1/10W
R29		RK73FB2A241J	CHIP R 240 J 1/10W
R30		RK73FB2A683J	CHIP R 68K J 1/10W
R31		RK73FB2A104J	CHIP R 100K J 1/10W
R32		RK73FB2A101J	CHIP R 100 J 1/10W
R40		RK73FB2A331J	CHIP R 330 J 1/10W
R41		RK73FB2A222J	CHIP R 2.2K J 1/10W
R42		RK73FB2A103J	CHIP R 10K J 1/10W
R43		RK73FB2A123J	CHIP R 12K J 1/10W
R44		RK73FB2A103J	CHIP R 10K J 1/10W
R45		RK73FB2A223J	CHIP R 22K J 1/10W
R46		RK73FB2A103J	CHIP R 10K J 1/10W
R48		RK73FB2A562J	CHIP R 5.6K J 1/10W
R49		RK73FB2A433J	CHIP R 43K J 1/10W
R50		RK73FB2A222J	CHIP R 2.2K J 1/10W
R51 ,52		RK73FB2A473J	CHIP R 47K J 1/10W
R53		RK73FB2A103J	CHIP R 10K J 1/10W
R55		RK73FB2A912J	CHIP R 9.1K J 1/10W
R56		RK73FB2A333J	CHIP R 33K J 1/10W
R57		RK73FB2A823J	CHIP R 82K J 1/10W
R58		RK73FB2A102J	CHIP R 1.0K J 1/10W
R61		RK73FB2A223J	CHIP R 22K J 1/10W
R62		RK73FB2A333J	CHIP R 33K J 1/10W
R63		RK73FB2A472J	CHIP R 4.7K J 1/10W
R64 ,65		RK73FB2A222J	CHIP R 2.2K J 1/10W
R66		RK73FB2A272J	CHIP R 2.7K J 1/10W

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KRC-501/551

PARTS LIST

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SYNTHESIZER UNIT (X14-523X-XX) 0-10: KRC-501 0-21 : KRC-551

Ref No. 参照番号	New 新	Parts No. 部品番号	Description 部品名／規格
R67		RK73FB2A683J	CHIP R 68K J 1/10W
R70		RK73FB2A102J	CHIP R 1.0K J 1/10W
R71 ,72		RK73FB2A103J	CHIP R 10K J 1/10W
R73 -76		RK73FB2A331J	CHIP R 330 J 1/10W
R77 -80		RK73FB2A183J	CHIP R 18K J 1/10W
R81 -84		RK73FB2A472J	CHIP R 4.7K J 1/10W
R85 -92		RK73EB2B2R2J	CHIP R 2.2 J 1/8W
R93 ,94		RK73FB2A104J	CHIP R 100K J 1/10W
R96		RK73FB2A104J	CHIP R 100K J 1/10W
R99		RK73FB2A104J	CHIP R 100K J 1/10W
R106		RK73FB2A333J	CHIP R 33K J 1/10W
R107		RK73FB2A473J	CHIP R 47K J 1/10W
R108		RK73FB2A223J	CHIP R 22K J 1/10W
R109		RK73FB2A103J	CHIP R 10K J 1/10W
R110		RK73FB2A104J	CHIP R 100K J 1/10W
R111,112		RK73FB2A103J	CHIP R 10K J 1/10W
R113		RK73FB2A123J	CHIP R 12K J 1/10W
R114		RK73FB2A472J	CHIP R 4.7K J 1/10W
R115		RD14DB2H102J	SMALL-RD 1.0K J 1/2W
R116		RK73FB2A223J	CHIP R 22K J 1/10W
R117		R92-0366-05	CHIP R 560 J 1W
R118		RK73FB2A223J	CHIP R 22K J 1/10W
R119		RK73FB2A472J	CHIP R 4.7K J 1/10W
R120		RK73FB2A103J	CHIP R 10K J 1/10W
R121		RK73FB2A622J	CHIP R 6.2K J 1/10W
R122		RD14DB2H2R2J	SMALL-RD 2.2 J 1/2W
R124,125		RK73FB2A103J	CHIP R 10K J 1/10W
R126,127		RK73EB2B222J	CHIP R 2.2K J 1/8W
R129		RD14DB2H561J	SMALL-RD 560 J 1/2W
R131		RD14DB2H102J	SMALL-RD 1.0K J 1/2W
R132		RK73FB2A473J	CHIP R 47K J 1/10W
R133		RK73FB2A223J	CHIP R 22K J 1/10W
R135		RS14DB3A332J	FL-PROOF RS 3.3K J 1W
R136		RK73FB2A103J	CHIP R 10K J 1/10W
R137		RK73FB2A223J	CHIP R 22K J 1/10W
R138		RK73FB2A103J	CHIP R 10K J 1/10W
R139		RK73FB2A223J	CHIP R 22K J 1/10W
R140-142		RK73FB2A473J	CHIP R 47K J 1/10W
R143		RK73FB2A241J	CHIP R 240 J 1/10W
R144		RK73FB2A104J	CHIP R 100K J 1/10W
R146		RK73FB2A473J	CHIP R 47K J 1/10W K
R146,147		RK73FB2A473J	CHIP R 47K J 1/10W M
R148		RK73FB2A473J	CHIP R 47K J 1/10W K
R150		RK73FB2A473J	CHIP R 47K J 1/10W
R152-154		RK73FB2A473J	CHIP R 47K J 1/10W
R157,158		RK73FB2A222J	CHIP R 2.2K J 1/10W
R159		RK73FB2A102J	CHIP R 1.0K J 1/10W
R161,162		RK73FB2A222J	CHIP R 2.2K J 1/10W
R163		RK73FB2A102J	CHIP R 1.0K J 1/10W
R164		RK73FB2A222J	CHIP R 2.2K J 1/10W
R166		RK73FB2A103J	CHIP R 10K J 1/10W
R167-170		RK73FB2A222J	CHIP R 2.2K J 1/10W
R171-173		RK73FB2A101J	CHIP R 100 J 1/10W
R174-177		RK73FB2A222J	CHIP R 2.2K J 1/10W
R178		RK73FB2A472J	CHIP R 4.7K J 1/10W
R179,180		RK73FB2A222J	CHIP R 2.2K J 1/10W
R181		RK73FB2A472J	CHIP R 4.7K J 1/10W
R182,183		RK73FB2A222J	CHIP R 2.2K J 1/10W
R184		RK73FB2A103J	CHIP R 10K J 1/10W
R185		RK73FB2A222J	CHIP R 2.2K J 1/10W
R186		RK73FB2A472J	CHIP R 4.7K J 1/10W
R187-189		RK73FB2A222J	CHIP R 2.2K J 1/10W
R190		RK73FB2A102J	CHIP R 1.0K J 1/10W
R191		RK73FB2A221J	CHIP R 220 J 1/10W
R192		RK73FB2A331J	CHIP R 330 J 1/10W
R193		RK73FB2A392J	CHIP R 3.9K J 1/10W
R194		RK73FB2A103J	CHIP R 10K J 1/10W
R195-197		RK73EB2B102J	CHIP R 1.0K J 1/8W
R198		RK73EB2B101J	CHIP R 100 J 1/8W
R199		RK73EB2B102J	CHIP R 1.0K J 1/8W
R200		RK73EB2B103J	CHIP R 10K J 1/8W
R201		RK73EB2B101J	CHIP R 100 J 1/8W
R202		RK73FB2A103J	CHIP R 10K J 1/10W
R203,204		RK73FB2A221J	CHIP R 220 J 1/10W
R205,206		RK73FB2A104J	CHIP R 100K J 1/10W
R227,228		RK73FB2A223J	CHIP R 22K J 1/10W
R229,230		RK73FB2A681J	CHIP R 680 J 1/10W
R231,232		RK73FB2A273J	CHIP R 27K J 1/10W
R233		RK73FB2A473J	CHIP R 47K J 1/10W
R235		RK73FB2A102J	CHIP R 1.0K J 1/10W
R236		RK73FB2A103J	CHIP R 10K J 1/10W
R237		RK73FB2A223J	CHIP R 22K J 1/10W
R238		RK73FB2A222J	CHIP R 2.2K J 1/10W
R239-242		RK73FB2A472J	CHIP R 4.7K J 1/10W
VR1 ,2		R12-0678-05	TRIMMING PØT.(10K ｳﾁ)
VR3		R12-3688-05	TRIMMING PØT.(47K ｳﾁ)
W3		R92-2052-05	CHIP R 0 J 1/10W
W5		R92-2052-05	CHIP R 0 J 1/10W
D1		1SS133	DIØDE
D2		UZL-6(L3)	ZENER DIØDE
D3		RM10ZLF	DIØDE
D4		1SS133	DIØDE
D5		AM01Z	DIØDE
D6		1SS133	DIØDE
D7		UZL-6(L3)	ZENER DIØDE
D8		UZL-7(L3)	ZENER DIØDE
D11 ,12		1SS133	DIØDE
D13		UZL-11(M2)	ZENER DIØDE
D15 ,16		AM01Z	DIØDE
D20		DAN202K	DIØDE
D28 -36		UZ-6.2BS(B)	ZENER DIØDE
D37 ,38		UZ-11BS(B)	ZENER DIØDE
D39 -42		DA204K	DIØDE
D43 ,44		DAP202K	DIØDE
IC1	*	BA328F	ANALØGUE IC
IC2		HA12134AF	IC(DØLBY B NR SYSTEM)
IC3	*	BA3703F	ANALØGUE IC
IC4	*	LA1143B	ANALØGUE IC
IC5	*	TDA7340P	ANALØGUE IC

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Ref No. 参照番号	New 新	Parts No. 部品番号	Description 部品名／規格
IC6 ,7		AN7190K	ANALOGUE IC
IC8		BA3906-V4	ANALOGUE IC
IC9	*	LC72329-8923	MI-COM IC
Q1 -4		DTC143TK	DIGITAL TRANSISTOR
Q5		DTC144EK	DIGITAL TRANSISTOR
Q7 ,8		DTC144EK	DIGITAL TRANSISTOR
Q9		2SC2412K	TRANSISTOR
Q10		2SA1037K	TRANSISTOR
Q11		DTA144EK	DIGITAL TRANSISTOR
Q12		2SC2412K	TRANSISTOR
Q14 -16		2SC2412K	TRANSISTOR
Q17		2SB1277	TRANSISTOR
Q18		2SA1037K	TRANSISTOR
Q19		DTA124EK	DIGITAL TRANSISTOR
Q20		2SC2412K	TRANSISTOR
Q21 ,22		DTA144EK	DIGITAL TRANSISTOR
Q24 ,25		DTA144EK	DIGITAL TRANSISTOR
Q26		DTC144EK	DIGITAL TRANSISTOR
Q27		2SB1184	TRANSISTOR
Q28		2SC2412K	TRANSISTOR
Q29		DTA124EK	DIGITAL TRANSISTOR
Q30		DTC144EK	DIGITAL TRANSISTOR
Q31 ,32		2SB1326	TRANSISTOR
Q33 ,34		DTC114EK	DIGITAL TRANSISTOR
Q35		2SB1443	TRANSISTOR
Q36		DTC114EK	DIGITAL TRANSISTOR
Q37		2SB1443	TRANSISTOR
Q38		DTC114EK	DIGITAL TRANSISTOR
Q39		2SA1036K	TRANSISTOR
Q41		2SA1037K	TRANSISTOR
Q42		DTC144EK	DIGITAL TRANSISTOR
Q43		2SC2412K	TRANSISTOR
Q44		2SK536	FET
Q46		DTA144EK	DIGITAL TRANSISTOR
Q47		DTC144EK	DIGITAL TRANSISTOR
Q48		DTA144EK	DIGITAL TRANSISTOR
Q49		DTC144EK	DIGITAL TRANSISTOR
Q51		DTC144EK	DIGITAL TRANSISTOR
Q53 -56		DTC143TK	DIGITAL TRANSISTOR
Q57		DTA144EK	DIGITAL TRANSISTOR
Q58		DTC144EK	DIGITAL TRANSISTOR
TU1 2D	*	W02-1463-05	FM/AM FRONT-END

SWITCH UNIT (X25-7260-10)

301 2E	*	B11-0883-04	OPTICAL DIFFUSER
302 2E	*	B19-1005-03	LIGHTING BOARD
D1 -4		B30-1349-05	LED
D7 -20		B30-1349-05	LED
LCD1 2E	*	B38-0618-05	LIQUID CRYSTAL
PL1		B30-1305-05	LAMP (5.5V .125A)
PL2 ,3		B30-1306-05	LAMP (5.5V .125A)
PL4		B30-1305-05	LAMP (5.5V .125A)
C1		CK73FB1H223KTA	CHIP C 0.022UF K
C2		CK73FB1H681K	CHIP C 680PF K

SYNTHESIZER UNIT (X14-523X-XX) 0-10: KRC-501 0-21 : KRC-551

Ref No. 参照番号	New 新	Parts No. 部品番号	Description 部品名／規格
303 1E		E29-1432-04	CONDUCTIVE RUBBER
304 1F	*	E29-1452-03	CONDUCTIVE RUBBER
305 1E	*	E29-1454-04	CONDUCTIVE RUBBER
306 1E	*	E29-1455-04	CONDUCTIVE RUBBER
CN1	*	E59-0820-05	RECTANGULAR PLUG
R1 ,2		RK73EB2B471J	CHIP R 470 J 1/8W
R4		RK73EB2B471J	CHIP R 470 J 1/8W
R5 -8		RK73EB2B331J	CHIP R 330 J 1/8W
R9 -13		RK73FB2A101J	CHIP R 100 J 1/10W
R14 -19		RK73FB2A102J	CHIP R 1.0K J 1/10W
R22		RK73FB2A513J	CHIP R 51K J 1/10W
D21 -26	*	UZMA6.2	ZENER DIODE
IC1	*	LC75852E	MOS-IC
Q1		DTC144EK	DIGITAL TRANSISTOR
Q2		DTA144EK	DIGITAL TRANSISTOR

CASSETTE MECHANISM ASSY (D40-1054-05)

1	2A		A10-2345-08	CHASSIS ASSY
2	3B		J21-7524-08	MOUNTING HARDWARE (P.B. HEAD)
3	3B		D14-0630-08	SPRING ROLLER
4	3B		G01-2613-08	TORSION SPRING (PINCH ROLLER)
5	3B		D10-2907-08	SLIDER
6	3B		D13-1102-08	GEAR
7	3B		J90-0741-08	TAPE GUIDE
8	2B		J19-4554-08	HEAD HOLDER
9	2B		J11-0604-08	CLAMPER
11	3B		D10-2908-08	SHIFT PLATE
12	3B		G01-2695-08	H.G SPRING
13	3B		J90-0742-08	WASHER
15	2B		E39-0059-08	WIRING HARNESS
16	2B		D10-2752-08	PINCH ROLLER ASSY (F)
17	2A		D10-2753-08	PINCH ROLLER ASSY (R)
19	2B		J21-7528-08	MOUNTING HARDWARE
20	1B		D10-2909-08	SLIDER
22	3A		D03-0308-08	REEL DISK
23	3A		D13-1103-08	GEAR
24	3A		D13-1104-08	GEAR
25	3A		D13-1105-08	GEAR
26	3A		D13-1106-08	GEAR
27	3A		D13-1107-08	GEAR (REV)
28	3A		D10-2755-08	ARM
29	3A		A11-0889-08	SUB CHASSIS ASSY
30	3A		G01-2618-08	COMPRESSION SPRING
31	3A		D13-1111-08	GEAR
32	3A		D10-2756-08	ARM
33	3A		D10-2757-08	ARM
34	3A		G01-2614-08	TORSION SPRING
36	3A		D03-0309-08	REEL DISK ASSY
41	2A		E60-0801-08	CONNECTOR
43	1B		D10-2758-08	ARM
44	1A		D10-1346-08	SLIDER
45	1B		G01-1574-08	TENSION SPRING
46	1A		G11-1550-08	CUSHION
47	1A		G01-2696-08	TORSION SPRING
48	1A		J19-4451-08	HOLDER

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CASSETTE MECHANISM ASSY (D40-1054-05)

Ref No. 参照番号	New 新	Parts No. 部品番号	Description 部品名／規格
49 1A		D10-2759-08	ARM
50 1A		D10-2768-08	SLIDER
51 1B		G02-1153-08	FLAT SPRING
52 1A		G09-0051-08	SPRING
56 2A		D14-0631-08	ROLLER
57 2A		D14-0632-08	ROLLER
58 2A		D10-2747-08	LEVER
59 2A		G01-2620-08	TENSION SPRING
60 2A		G01-2621-08	TENSION SPRING
61 2A		D10-2912-08	LEVER
64 2B		D10-2769-08	SLIDER
65 2B		G09-2006-08	SPRING
66 2B		G09-2007-08	SPRING
70 3A		D10-2754-08	ARM
71 2A		D13-1109-08	GEAR
72 3A		G01-2616-08	TORSION SPRING
74 3B		D01-0605-08	FLYWHEEL ASSY
75 3B		D16-0606-08	BELT
77 2A		G01-2619-08	COMPRESSION SPRING
78 2B		D13-1110-08	GEAR
79 2B		D15-0909-08	PULLEY
80 2A		G01-2617-08	TORSION SPRING
81 2B		D10-2760-08	ARM
82 2B		N09-4055-08	SCREW
83 2A		D10-2761-08	ARM
84 2B		D10-2762-08	ARM
85 1A		G01-2622-08	TENSION SPRING
86 3B		D10-2749-08	LEVER
87 3A		N09-4056-08	SCREW
88 2A		D10-2763-08	ARM
89 2B		G01-2623-08	TENSION SPRING
90 2B		N19-2038-08	FLAT WASHER
91 1B		G01-2697-08	TENSION SPRING
92 1B		D10-2913-08	LEVER
93 1B		D10-2914-08	LEVER
94 2B		D10-2764-08	ARM
95 2B		G01-2625-08	TENSION SPRING
96 1B		D10-2765-08	ARM
97 1B		G01-2626-08	TENSION SPRING
98 3B		N19-2035-08	FLAT WASHER
99 1B		D10-2766-08	ARM
100 1B		T94-0406-08	SOLENOID COIL
101 1B		T94-0407-08	SOLENOID
102 1B		G01-2698-08	TENSION SPRING
103 2B		D19-0604-08	PIN
104 2B		G01-2627-08	TENSION SPRING
150 2B		N09-4009-05	SCREW
151 3B		N09-4009-05	SCREW
153 3B		N19-2036-08	FLAT WASHER
154 2A		N19-2037-08	FLAT WASHER
155 1A		N84-2003-45	SCREW
156 1A		N24-3015-60	E TYPE RETAINING RING
157 1B		N09-4059-08	SCREW
158 2B		N19-2043-08	FLAT WASHER
159 2A		N19-2039-08	FLAT WASHER

Ref No. 参照番号	New 新	Parts No. 部品番号	Description 部品名／規格
160 2B		N24-3020-60	E TYPE RETAINING RING
161 2A		N09-4058-08	SCREW
162 3B		N19-2050-08	FLAT WASHER
163 2A		N19-2041-08	FLAT WASHER
164 2A		N19-2042-08	FLAT WASHER
165 3A		N09-4092-08	SCREW
166 2B		N09-4060-08	SCREW
167 3B		N09-4109-08	SCREW
168 3B		N09-4110-08	SCREW
HD1 2B		T31-0214-08	PLAYBACK HEAD
M1 2A		T42-0734-08	MOTOR ASSY
S1 2A		S62-0813-08	SLIDE SWITCH
S2 2A		S68-0803-08	PUSH SWITCH
S3 2B		S62-0812-08	SLIDE SWITCH

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PARTS LIST

MARKING OF CHIP TRANSISTORS (SMT)
(DTAxxxxK, DTCxxxxK, 2Sxxxxx K)

SMT (PNP)			
形 名/Parts No.	標 印/Mark	形 名/Parts No.	標 印/Mark
DTA144EK	16	DTA114YK	54
DTA124EK	15	DTA143TK	93
DTA114TK	94	DTA114EK	14
DTA144WK	76	DTA143EK	13
DTA143XK	33	DTA124XK	35
DTA124TK	95	DTA144TK	96
DTA123EK	12	DTA123JK	E32
DTA143ZK	E13	DTA113JK	E11
DTA123YK	52	DTA114WK	74
DTA115EK	19	DTA115TK	99
DTA125TK	9A	DTA114GK	K14
DTA115GK	K19	DTA124GK	K15
DTA144GK	K12		

SMT (NPN)			
形 名/Parts No.	標 印/Mark	形 名/Parts No.	標 印/Mark
DTC144EK	26	DTC114YK	64
DTC124EK	25	DTC143TK	03
DTC114TK	04	DTC114EK	24
DTC144WK	86	DTC143EK	23
DTC143XK	43	DTC124XK	45
DTC124TK	05	DTC144TK	06
DTC123EK	22	DTC123JK	E42
DTC143ZK	E23	DTC113ZK	E21
DTC123YK	62	DTC114WK	84
DTC115EK	29	DTC115TK	09
DTC125TK	0A	DTC114GK	K24
DTC115GK	K29	DTC124GK	K25
DTC144GK	K22		

SMT			
形 名/Parts No.	略記号 / Mark	形 名/Parts No.	略記号 / Mark
2SA1036K	H	2SA1037K	F
2SA1037KLN	D	2SA1455K	G
2SA1514K	M	2SB852K	U
2SC2059K	J	2SC2411K	C
2SC2412K	B	2SC2412KLN	L
2SC2413K	A	2SC3082K	S
2SC3722K	I	2SC3802K	AL
2SC3837K	AC	2SC3838K	AD
2SC3839K	AE	2SC3906K	T
2SD1383K	W	2SD1484K	Y
2SD1757K	AA	2SD1781K	AF
2SD1782K	AJ		

MPT			
形 名/Parts No.	略記号 / Mark	形 名/Parts No.	略記号 / Mark
2SB1132	BA	2SB1188	BC
2SB1189	BD	2SD1664	DA
2SD1766	DB	2SD1767	DC
2SD1384	DE		

KRC-501/551

SPECIFICATIONS

		KRC-501	KRC-551
FM	Frequency range (Frequency step)	87.9MHz~107.9MHz (200kHz)	87.5MHz~108.0MHz (50kHz)
		50k/200kHz switchable	
	Usable sensitivity S/N : 30dB	9.3dBf (0.8μV/75Ω)	
	Quieting sensitivity S/N : 50dB	15.2dBf (1.6μV/75Ω)	
	Frequency response (±3.0dB)	30Hz~15kHz	
	S/N (dB)	73dB	
	Selectivity (dB)	100dB	
	Capture ratio	1.5dB	
	Image response ratio	70dB	
	IF response ratio	120dB	
	ST. separation (dB)	40dB (1kHz)	
AM	Frequency range (Frequency step)	530kHz~1700kHz (10kHz)	531kHz~1611kHz (9kHz)
		9k/10kHz switchable	
	Usable sensitivity	28dB (30μV)	
CASS	Tape speed	4.76cm/sec.	
	Wow/Flutter (WRMS) (%)	0.12% (WRMS)	
	Fast winding time (C-60)	100 (sec)	
	Frequency response (Hz) (±3.0dB)	30~16kHz (120μs) 30~18kHz (70μs)	
	Separation (dB)	43 (1kHz)	
	S/N (dB) Dolby NR off Dolby BNR on	54dB 63dB	
	Preout level (mV)/Load	1500/10kΩ	
AUDIO	Maximum output power	25Wx4	
	Output power (4Ω, 1kHz, 10% THD)	20Wx4	
	(4Ω, 30~20kHz, 1% THD)	15Wx4	
	TONE Bass Treble	100Hz±10dB 10kHz±10dB	
GENE-RAL	Operating voltage	14.4V (11~16V allowable)	
	Current consumption	6.9A at rated power	
	Installation size (W x H x D)	182 (7-3/16) x 53 (2-1/16) x 154 (6-1/16) mm (inch)	
	Weight	3.7LBs (1.7kg)	

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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